AUTHOR INDEX

A

Aakvaag, A., 36, 43, 44, 47, 420
Aarefjord, F., 163
Abboud, F. M., 446, 448, 451, 457, 458, 465
Abdel Magid, A. M., 594
Abdel-Sayed, W. A., 451, 457
Abdulla, Y. H., 321
Abe, K., 327
Abe, Y., 15
Abeles, M., 232
Aberg, A. K. G., 3
Abrahamson, E. W., 203, 206, 207, 257
Abrams, R. L., 414
Abrams, R. M., 422
Abzug, C., 340, 343, 344, 347, 350, 355, 356, 357, 368, 372, 386, 387
Ackermann, U., 103
Acosta, A. L., 161
Ács, Z., 402
Adams, J. B., 37
Adams, M. D., 450
Adams-Ray, J., 581, 582
Addae, S. K., 118, 121
Ades, H. W., 296
Adkins, R. J., 340, 341, 343, 359, 360
Adrian, E. D., 339
Aherne, W., 172
Ahlquist, R. P., 1, 2, 3, 10, 15, 16, 17, 586
Ahmed, K., 69, 70
Ahmed, M., 446, 447
Ahrén, K., 422
Aires, M. M., 106, 107, 108
Aithal, H. N., 183
Aitkin, L. M., 304, 305
Aizawa, Y., 68
Ajika, K., 395
Akert, K., 403
Akhtar, M., 206, 207
Albe-Fessard, D., 339, 343, 344, 345, 346, 352, 353, 357, 358, 381
Alberga, A., 34, 37, 39, 40
Alberici, M., 316
Albers, C., 592
Albert, D. J., 535
Alexander, G., 172
Alexander, R. McN., 575
Alexander, S. C., 470
Aliapoulios, M. A., 45
Allen, C. F., 401, 402
Allen, D. J., 192
Allen, D. O., 328
Allen, J. R., 174, 183
Allen, R. A., 257, 262
Alleyne, G. A. O., 111, 113, 114
Allikmets, L., 193
Allison, J. E., 53, 54
Allison, T., 298
Alpern, M., 217, 218, 257
Altman, J. A., 304
Altura, B. M., 450
Alvik, M., 166
Amassian, V. E., 339, 345, 348, 351, 371, 386, 387
Amenomori, Y., 416, 427
Ames, A. III, 270
Amit, Y., 175, 177, 178
Ammerlain, V., 71
Amos, J., 409, 410
Amoss, M., 409
Anagnostopoulos, T., 102
Anand, B. K., 410, 537
Anden, N. E., 1, 4
Andersen, H. T., 349, 584, 592, 594
Andersen, P., 371, 372
Andersen, R., 399
Anderson, C. H., 34, 35, 420
Anderson, D. J., 291, 292, 293, 305
Anderson, E., 393
Anderson, H. L., 189
Anderson, K. M., 43, 44, 46, 47, 48
Anderson, R. A., 223
Anderson, R. E., 207
Anderson, R. R., 164
Andersson, B., 98
Andersson, R., 327, 328
Andersson, S. A., 351
Andrews, D. P., 265
Angelakos, E. T., 469
Angeletti, P. U., 68
Angeli, A., 405
Anthony, A., 184
Antoni, H., 518, 519, 520, 522, 523
Antoniades, H. N., 40
Anton-Tay, F., 422
Antunes-Rodrigues, J., 422, 425, 522
Apostol, V., 371
Appelgren, L. E., 43
Appleman, M. M., 316, 317
Appley, M. H., 544
Aras, M., 102
Arden, G. B., 208, 214, 215, 258, 271
Arees, E. A., 536, 556, 558
Arimura, A., 399, 400, 412, 422
Armand, J., 585, 588
Armstrong, C. M., 518
Armstrong, D. T., 49, 393, 417
Arnaiz, G. R. D. L., 316
Arnold, A., 327, 448
Aronow, A., 66
Arrizurieta-Muchnik, E. E., 87, 91, 92, 93, 95
Arvill, A., 452
Asanuma, H., 340, 343, 344, 345, 347, 350, 354, 355, 356, 357, 358, 359, 360, 361, 362, 368, 372, 386, 387
Ascher, P., 340, 346
Aschoff, J. C., 339, 340, 343, 347, 355, 358, 360, 386
Asfeldt, U. H., 406
Asher, R. R., 111, 114, 115
Ashman, D. F., 311, 313, 318
Ashmore, J., 316, 328
Ashworth, A., 181
Asmussen, E., 132, 133, 146
Astrada, J. J., 419, 420, 422, 425
Atkin, A., 376, 381, 382, 384
Atkinson, L. E., 427
Attramadal, A., 34, 36, 43, 420
Augustinsson, K. B., 581
Aune, S., 458
Aurbach, G. D., 19, 117, 118, 311, 314, 315, 319, 320, 321, 328
Avakian, O. V., 5
Avdalovic, N., 67
Avelar, E., 99, 100
Averill, R. L. W., 409, 410
Axelsson, J., 1-30; 3, 13, 14, 16, 311
Aynedjian, H. S., 95, 102

B

Babskii, E. B., 516
Bach, L. M. N., 534
Bacharach, A. D. E., 207,

209, 213
Baez, S., 463
Baggett, B., 406
Baglioni, S., 574
Bahlmann, J., 100
Baile, C. A., 536
Bailey, D. M., 10
Baines, A. D., 87, 88, 90, 92
Baines, C. J., 87, 88
Bairati, A., Jr., 213
Baird, C. E., 327
Baird, D. T., 422, 425, 427
Baitera, B., 68
Baker, B. L., 397, 411
Baker, B. N., 257
Baker, D. H., 189
Baker, H. D., 219, 257
Baker, H. R., 525
Baker, M. A., 344, 347, 357, 378
Baker, P. F., 518
Baker, R., 462
Balabai, P. P., 574
Balagura, S., 120, 534, 538
Balagura-Baruch, S., 117, 119
Baldamus, C. A., 95, 109
Ball, G. G., 544
Ball, J. H., 320, 321
Ballantine, P., 558
Ballard, D. R., 446, 451, 457, 458
Ballard, K., 456
Ballintijn, C. M., 574, 575, 595, 596
Balogh, K., 287
Balogh, K., Jr., 295
Balshüsemann, E., 99
Bancroft, F. C., 412
Banerjee, M. G., 537
Banerjee, M. R., 156
Bank, N., 83, 95, 102
Bär, H. P., 314, 325
Barbiroli, B., 60, 65
Barclay, J. K., 453
Bard, P., 344, 386
Bardin, C. W., 48, 53, 54
Barger, A. C., 99
Bargoot, F. G., 213
Barker, K. L., 50, 67
Barkley, D. S., 318
Barlow, H. B., 219, 227, 228, 265, 266, 269
Barnea, A., 68
Barnes, R. V., 463
Barnett, L. B., 156, 157, 158, 169
Barnett, S. A., 163, 185
Barnola, F. V., 245
Bar-Or, O., 181
Barr, L., 214, 488
Barraclough, C. A., 418, 422
Barrett, J. F., 408
Barrnett, R. J., 4
Barron, D. H., 64
Barry, A., 582
Bartels, H., 132, 573
Barter, R., 4
Bartlett, P. D., 121
Bartunkova, R., 163, 171, 172, 173, 175, 176
Bashirelahi, N., 50
Bass, L., 216
Bastide, F., 322
Basu, S. P., 592
Bateman, J., 584
Bates, J. A. V., 377, 383
Baulieu, E. E., 34, 37, 38, 39, 40, 42, 43, 47, 48, 49, 50, 51, 54, 397
Bauman, T. R., 164
Baumann, Ch., 208, 218, 219, 264
Baumann, F., 250
Baumgarten, D., 585, 587, 592, 593
Baumgarten, H. G., 461
Baumgarten-Schumann, D., 580, 588, 589, 590, 591, 592
Bava, A., 346
Baylor, D. A., 217, 243, 248, 252, 257, 259
Beamish, F. W. H., 592
Beaton, J. R., 189
Beavo, J. A., 316, 317, 318
Beck, C. H., 338, 378, 380, 384
Beck, J. C., 411
Beck, L., 457
Becker, J. A., 327
Becker, R. S., 203
Beckwith, J., 323
Beddow, D. G., 412
Bedrak, E., 179
Beeler, G. W., Jr., 481, 482, 487, 488, 489, 491, 492, 493, 495, 496, 497, 498, 499, 500, 501, 504, 506, 507, 509, 510, 511, 512, 513, 518, 519, 522
Beer, R., 132
Beetham, K. L., 169
Beidler, L. M., 213
Belding, H. S., 156, 180, 181
Belham, J. E., 43, 44, 47
Beling, C. G., 427
Bell, C., 447
Bell, G. R., 579
Bell, W. H., 133
Bellau, L. J., 95
Belleau, B., 18, 19, 448
Benceny, C., 180
Benda, P., 245
Benevenga, N. J., 189
Benevento, L. A., 303
Bennett, C. M., 91
Bennett, M. R., 4, 7
Bennion, G. R., 580, 582
Bentzel, C. J., 102
Benzinger, T. H., 156, 168
Bercovici, J. P., 44, 52, 53
Berencsi, G., 189
Berenson, G. S., 68
Berg, T., 570, 571, 593, 594, 595, 597
Bergamini, E., 70
Berger, W., 488
Bergland, R. M., 395
Bergquist, E. H., 548
Berle, P., 68
Berliner, R. W., 87, 88, 89, 91, 92, 93, 95, 97, 98, 99, 100, 104, 105, 119
Berlucchi, G., 230
Berman, A. J., 358, 375
Berman, R., 19
Bern, H. A., 415
Bernardis, L. L., 411
Berne, R. M., 99, 452, 453, 462
Berne, T., 37
Bernstein, M. H., 161
Berry, N. M., 528
Berson, E. L., 213
Berson, S. A., 407, 414
Bertin, R., 178, 179
Bessada, R., 38
Best, P. J., 558
Bevan, J. A., 4, 9, 13, 445, 446
Bevelander, G., 571
Bewley, T. A., 415
Bhagat, B., 192, 193
Bianca, W., 181, 182
Bianki, V. L., 584
Biber, B., 464
Bibring, T., 315
Bidet, R., 184
Biel, J. H., 3
Biellier, H. V., 162
Bignall, K. E., 346
Bignall, M. C., 112
Bijtel, H. J., 575
Billemaire, A., 176
Billing, R. J., 65
Bindra, D., 541, 544, 554
Birch, M. P., 577, 578
Birchall, K., 326
Birge, C. A., 415, 416
Birnbaumer, L., 314, 327, 328
Birtch, A. G., 99
Bishop, G. H., 347
Bishop, I. R., 576
Bishop, P. O., 226, 227, 228, 229
Biswas, D. K., 38
Bitman, J., 36, 70
Bixler, E. J., 415
Bizzi, E., 339, 358, 375
Black, E. C., 593
Black, L. J., 34, 285
Blackard, R. F., 454

Blackard, W. G., 414
Blackburn, J. G., 539
Blackmore, F. H., 156
Blake, W., 99
Blakeley, A. G. H., 5
Blakemore, C., 227, 228, 230
Blanco, S., 414
Blasie, J. K., 206, 210, 212, 214
Blass, E. M., 542
Blatt, A. H., 467
Blatt, B., 558
Blatt, W. F., 183, 189
Blaurock, A. E., 206, 210, 211
Blaustein, M. P., 488
Blaxter, K. L., 166
Bligh, J., 156, 191
Blinks, J. R., 2, 582
Bliss, D., 346
Blizzard, R. M., 415, 424
Bloch, G. J., 417
Blockley, W. V., 156
Blomstrand, C., 244
Blondel, B., 528
Bloom, B. M., 18, 19, 448
Bloom, F. E., 1, 4
Bloom, G., 581, 582
Bloom, S., 528
Bloor, C., 328
Blosse, P. T., 206
Blum, B., 371
Blum, K. U., 33
Blundell, J. E., 548
Blythe, W. B., 101
Bobek, P., 186
Boccuzzi, G., 405
Bodenheimer, T. S., 247
Boerger, G., 295
Boes, R. J., 208
Böhme, E., 314, 315
Bohr, D. F., 13
Bojesen, E., 86, 87, 89, 92, 93
Bok, D., 209, 213, 252, 253
Bøler, J., 408, 409
Bolme, P., 447, 449, 450, 464
Bolt, A. G., 549
Bombara, G., 70
Bond, R. F., 454
Bondareff, W., 553
Bonjour, J., 99
Bonner, J. T., 318, 319
Bonnycastle, D. D., 192
Bonting, S. L., 206, 257, 288
Bonvalet, J. P., 88, 90
Booth, D. A., 549, 551
Bop, J. R., 189
Borek, E., 66
Born, G. V. R., 12
Bortoff, A., 214, 243
Bosher, S. K., 287
Bott, P. A., 84, 89, 91, 106, 108
Boucher, R., 461
Boudreau, J. C., 301
Boulouard, R., 188
Bouman, H. D., 375, 376, 377, 380, 385
Bouman, M. A., 257
Bourassa, C. M., 351, 352
Bourgoignie, J., 325
Bourguet, J., 328
Bousquet, W. F., 450
Bowers, C. Y., 399, 400, 408, 409, 422
Bowman, R. H., 117, 326
Bowman, W. C., 2, 327, 328
Bownds, D., 206, 210
Boycott, B. B., 219, 259, 262, 263, 268, 270
Boyle, A. J. F., 282
Boylen, C. T., 414
Bozler, E., 525
Bradford, H. F., 244
Brading, A. F., 3, 11, 445, 446, 470
Bradler, H. L., 61
Bradley, S. E., 100, 577, 580
Brady, A. J., 523
Brandis, M., 89, 90
Branson, C. M., 396
Branton, D., 211
Brasel, J. A., 60
Brauer, R., 164, 165, 179, 191
Braun, G., 86, 92
Braun, T., 325
Braun, W. E., 180
Braunsberg, H., 37
Braun-Schubert, G., 89, 90
Braunwald, E., 4, 457
Bray, C. W., 285
Brecher, G. A., 465
Brecher, P. I., 40, 41, 42
Brechtelsbauer, H., 98
Breckenridge, B. McL., 311
Bredell, G. A. G., 180
Brennan, R. D., 404, 406
Brenner, B. M., 91, 95, 98, 105
Bresciani, F., 36, 38, 42, 43
Brett, J. R., 586, 592
Breuer, H., 32, 71
Breuer, J., 32
Brewer, H. B., 311, 328
Brick, I., 4
Bricker, N. S., 101, 103
Bridges, C. D. B., 257
Briggs, A. H., 13, 14
Brightman, M. W., 246, 247, 251, 260
Brindley, G. S., 251, 257
Briscoe, W. A., 149
Britva, A., 245
Broadus, A. E., 318, 319, 320, 321
Brobeck, J. R., 538, 539
Brobmann, G. A., 465
Brock, F. E., 187
Brock, M., 469, 470
Brodal, A., 339, 370, 372
Brodal, P., 372
Brodish, A., 398, 400
Brody, M. J., 450, 457, 467
Brody, T. M., 10, 14
Brökelmann, J., 40, 41
Brooker, G., 316, 317
Brookhart, J. M., 339
Brooks, C. McC., 518, 519, 520, 521
Brooks, J. R., 14
Brooks, V. B., 337-92; 339, 340, 342, 343, 344, 345, 347, 355, 356, 358, 359, 360, 371, 373, 376, 378, 381, 382, 384, 385, 386
Brooks, W. S., 156, 157, 162, 163
Brouchon, J., 339, 358, 375, 381
Brown, A. G., 348
Brown, A. M., 524
Brown, A. W., 462
Brown, G. L., 5, 8
Brown, G. M., 406
Brown, H. F., 482, 483, 488, 498
Brown, J. B., 424
Brown, J. E., 244, 262
Brown, J. L., 223
Brown, J. M., 422
Brown, K. A., 538
Brown, K. T., 216, 270, 271, 273
Brown, L., 4, 5
Brown, P. B., 299, 300, 301, 302
Brown, P. G., 288
Brown, P. K., 204, 209
Brown, R. R., 69
Brown, T. G., 448
Brown-Grant, K., 410
Bruce, R. A., 132
Bruchovsky, N., 43, 44, 46, 47
Brück, K., 168, 170, 171, 172, 173, 175, 456
Brugge, J. F., 291, 292, 293, 305
Brumleve, S. J., 158
Bruner, J., 346
Brunner, F. P., 86, 92
Bruns, R. R., 246
Brush, J. S., 325, 327
Bryon, M. J., 32

Buchin, R. F., 458
Buchwald, J., 297
Buckalew, V. M., Jr., 103, 104
Bucknell, A., 10
Bucy, P. C., 338
Budd, G. M., 168, 175
Bueding, E., 12, 16, 17
Buhl, J., 406
Bülbring, E., 3, 7, 10, 11, 12, 14, 16, 445, 446, 470
Bulbrook, R. D., 37
Bullard, R. W., 156
Bullock, L., 53, 54
Bunge, M. B., 250
Bunge, R. P., 241, 250
Bunting, S. L., 66
Burdman, J. A., 245
Burg, M., 83-130; 87, 89, 92, 93, 94, 106, 109, 110
Burger, H. G., 424
Burger, J. W., 577, 580
Burgess, P. R., 348
Burgus, R., 393, 408, 409, 417
Burke, R. E., 339, 358, 375
Burkhardt, D. A., 273
Burks, T. F., 448, 462
Burlington, R. F., 174, 188
Burn, J. H., 5
Burns, B. D., 227, 228
Burns, T. W., 319, 327
Burnstock, G., 2, 4, 6, 7, 8, 9, 10, 11, 14, 447, 469, 582, 583, 585
Burright, R. G., 557
Burrows, R., 527
Burrus, K., 181
Burton, A. C., 167
Buser, P., 339, 340, 341, 343, 345, 346
Buskirk, E. R., 181
Busy, B. F., 576
Butcher, R. L., 62
Butcher, R. W., 2, 16, 17, 18, 19, 57, 311, 314, 316, 317, 318, 319, 327, 399, 448, 449
Butenandt, E., 269
Buxton, R. L., 409, 410
Buyniski, J. P., 470
Byczkowski-Smyk, W., 570
Byrom, R. F., 180
Byzov, A. L., 260, 265, 272

C

Cabady, M., 176
Cade, T. J., 161, 162
Cadot, M., 164, 165, 176
Caesar, R., 4
Cafruny, E. J., 83
Caggiula, A. R., 543, 545
Cahill, G. F., Jr., 111, 112, 113, 114
Caldarera, C. M., 60
Calder, W. A., 161, 162
Caligaris, L., 422, 425
Calissano, P., 68
Callantine, M. R., 34, 39
Calvelo, M. G., 457
Calvin, H. I., 55
Camejo, G., 245
Cameron, E. H. D., 37
Cameron, J. N., 580, 589
Campbell, B. A., 544, 555, 557, 558
Campbell, E. J. M., 132, 133, 134, 135, 137, 138
Campbell, F. W., 227
Campbell, G., 7, 450
Campbell, J. F., 541, 554
Canessa-Fischer, M., 119
Cannell, V. A., 13
Cannon, B., 170, 171
Capps, M. J., 296
Cardon, S. Z., 418
Carey, F. G., 574
Carey, J. R., 548
Cargille, C. M., 424, 425, 426
Carlisle, H. J., 535
Carlson, A. D., 248
Carlson, E. L., 467
Carlson, L. D., 163, 171, 175, 176
Carlson, S. J., 118
Carlsson, A., 1, 4
Carlton, P., 553
Carmeliet, E., 516, 517
Carminatti, H., 68
Carr, R. E., 264
Carre, C. G., 577, 578
Carrière, S., 465
Carroll, S., 252, 273
Carter, G. S., 571, 597
Carter, M. K., 102
Carter, S., 352
Carter, W. H., 422
Cassuto, Y., 159, 174, 175, 177, 178, 187, 188, 189
Casteels, R., 8, 14
Catt, K. J., 424, 425, 426, 427
Caulfield, J. B., 102
Cavallito, C. J., 1
Cecil, H. C., 36, 70
Cedergren, B., 527
Cehovic, G., 409
Celander, O., 448
Ceresa, F., 405
Cerf, J. A., 584
Cerretelli, P., 133, 139, 144, 151
Cervetto, L., 266
Cesset, L. B., 64
Chabora, J. T., 297
Chader, G. J., 50
Chaffee, R. R. J., 155-202; 155, 159, 163, 169, 172, 174, 177, 183, 184, 187, 189, 190, 191
Chalkley, G. R., 32, 43, 65
Chambaut, A., 327
Chamberlain, J., 45
Chambers, W. W., 338, 378, 380, 384
Chan, L. T., 398, 399
Chang, H. T., 357
Chang, Y. Y., 319
Channing, C. P., 422
Chase, L. R., 19, 58, 117, 311, 314, 319, 320, 321, 328
Chatonnet, J., 168, 175
Chaykin, S., 69
Chayoth, R., 177, 178, 189
Chazan, J. A., 97
Cheatham, M. A., 283, 284
Chen, C. L., 415, 416, 417, 422, 427
Cheng, M.-F., 542
Cheung, W. Y., 316, 323
Chevillard, L., 164, 165, 176, 178, 187
Chi, C. C., 548, 556
Chi, Y. M., 313
Chick, W. J., 446
Chin, R. C., 52
Ching, T. M., 170
Chiu, W.-G., 593
Chou, C. C., 468
Choudhury, B. P., 230
Chowers, I., 400
Christ, R., 470
Christiansen, E. N., 170
Christy, W. P., 40
Church, R. B., 65, 66
Churchill, P. C., 99, 115, 116, 117, 119
Cicero, T. J., 245
Cirksena, W. J., 91, 98, 104
Clapham, W. F., 103
Clapp, J. R., 108
Clare, M. H., 347
Clark, A. W., 211, 250
Clark, G. M., 300, 301, 302
Clark, J. H., 42
Clark, L. F., 290
Clark, R. T., 597
Clarke, F. J. J., 221
Clausen, T., 171
Clauser, H., 327
Clayton, R. B., 35, 67
Clegg, M. T., 422
Cleland, B. G., 264, 266
Clemens, J. A., 416, 417, 422
Clemens, L. E., 34, 39
Clode, M., 133, 138
Clough, J. F. M., 367,

368, 386
Cloutier, R. J., 536, 538
Cobbs, W. H. III, 208
Cocchi, D., 413
Code, C. F., 458, 533, 541
Coelho, J. B., 100
Coffee, K., 96
Coffey, D. S., 55, 60, 69
Cohen, A. I., 212, 251
Cohen, J. J., 97
Cohen, M. W., 242
Cohen, P., 52
Cole, B., 319, 327
Cole, K. C., 503, 514
Coleman, P. D., 303
Colin-Jones, D. G., 537
Colle, J., 346
Collier, G., 539
Collins, K. J., 177, 179, 180, 181, 182, 187
Colonnier, M. L., 232
Colowick, S. P., 313
Comis, S. D., 296
Cone, R. A., 208, 209
Conforti, N., 400
Conn, H. O., 323
Conney, A. H., 63
Conrad, R. G., 396
Consolazio, F. C., 180, 181
Conway, C. H., 169, 172
Conway, L. W., 411
Conway, M. J., 415
Cook, J. D., 297
Coombs, J. S., 227
Coons, E. E., 544, 551
Cooper, K. E., 156
Cooper, R. A., 19
Cooper, T., 448, 462, 581
Cooper, T. G., 222
Copenhaver, J. H., 111
Coraboeuf, E., 482, 483, 488, 498, 506, 511, 513, 514, 515, 516, 519
Corbin, A., 422
Corbin, J. D., 322, 323
Corda, M., 365
Cordeau, J. P., 371
Corker, C. S., 424, 425, 426
Corrodi, H., 4
Cort, J. H., 104
Coscina, D. V., 538
Costa, E., 311, 314
Costa, M., 7
Costin, J. C., 453, 455
Côté, J., 163
Cott, A., 548
Cottle, W. H., 164
Cotton, M. deV., 17
Couch, E. F., 412
Couteaux, R., 577, 582
Covell, W. P., 285
Cowan, D. M., 36
Cowan, M., 273
Cowan, W. M., 245
Cowley, D. J., 458
Cox, V. C., 534, 546, 547, 548, 556
Coyer, D., 400
Coyne, M. D., 400
Crafts, R. C., 62
Craik, K. J. W., 376
Crank, J., 141, 142, 143
Cranston, W. I., 156
Crawford, E. C., Jr., 161, 181
Cremer, J. E., 191, 244
Crenshaw, C., 64
Crepy, O., 52
Crescitelli, F., 216, 257
Creutzfeldt, O. D., 257, 265, 266, 345
Crider, J. O., 464
Crighton, D. B., 419, 420
Crissman, J. K., Jr., 62
Critchlow, V., 400, 404, 405, 534
Crockford, G. W., 181, 182
Crofford, O. B., 316
Crosignani, P. G., 424
Cross, C. E., 592, 593
Crowcroft, P. G., 7
Crowshaw, K., 466
Cruce, J. A. F., 544
Cruz, J. C., 133
Cryer, P. E., 323
Cserr, H., 247
Cuatrecasas, P., 40
Cumming, G., 141, 142, 143, 145, 149
Curran, P. F., 102
Curzon, G., 193
Cuthbert, A. W., 3, 13, 15
Czako, L., 399

D

Daemen, F. J. M., 206
Dahl, E., 534
Dahlström, A., 4
Dahmn, K., 32
Dale, H. H., 9, 10
D'Alecy, L. G., 469
Dallman, M. F., 98, 402, 403, 404, 405, 410
Dallos, P., 282, 283, 284, 285, 292, 294
Dalton, C., 191
Damian, A. C., 118, 119, 120
Daniels, E. L., 422
Danielson, B. G., 107
Danziger, L., 430
Darbishire, A. D., 575
Darian-Smith, I., 226
Dartnall, H. J. A., 206, 207
Das, B. K., 571
Dass, C. M. S., 65
Datta, J. K., 424, 425, 426
Daughaday, W. H., 414, 415, 416
Daugharty, T. M., 95
David, M. A., 422
David-Nelson, M. A., 398
Davidson, J. M., 400, 417, 420, 422
Davidson, O. W., 37, 38
Davies, B. M. A., 111
Davies, J. I., 316
Davis, B. B., 99, 100, 104, 105, 320, 321
Davis, C., 528
Davis, H., 282, 285, 286, 290, 291, 292, 294
Davis, J. C., 573, 580, 586, 589
Davis, J. O., 100, 103
Davis, J. S., 17, 57
Davis, J. W., 312, 313, 314, 315, 318, 319, 321
Davis, P. K., 214
Davis, R. S., 463
Davis, T. R. A., 166
Davoren, P. R., 318
Daw, N. W., 223, 224, 267, 268
Dawson, J., 574
Dawson, T., 177
Dawson, W. R., 161
Dearnaley, D. P., 4
De Asua, L. F., 68
Deatherage, B. H., 286
de Boer, E., 290, 294
Debons, A. F., 536, 538
Deck, K. A., 582
de Crombrugghe, B., 323
Dedov, I. I., 394
Deetjen, P., 465, 470
de Fisch, F. W., 252
DeGroat, W. C., 192
DeGroodt, M., 571
DeHaan, R. L., 481, 526, 527
DeHaas, J., 119
DeHertogh, R., 37
Deiss, S., 88
Dejours, P., 570, 585, 588, 589
de Kock, L. L., 598
de la Lande, I. S., 13
Delaney, J. P., 458, 462
DeLange, R. J., 19
Delfs, E., 430
Delgado, J. M. R., 193
Delisle, G., 183, 184
Dellacha, J. M., 411
DeLong, A., 325
DeLong, M., 339, 358, 375
De Moor, P., 35
Demura, H., 424, 425, 426
Denef, C., 35
Denison, D., 133, 135,

136, 138
Dennis, M. H., 241
Denny-Brown, D., 385, 386, 387
De Paula Carvalho, M., 516
Depocas, F., 184, 189, 190
De Potter, W. P., 5
De Robertis, E., 4, 316
Derome, P., 357
de Rouffignac, C., 83, 87, 88, 90
de Ruiter, L., 535
Desaulles, P. A., 71
De Schaepdryver, A. F., 5
Deshpande, N., 37
Desiderio, D., 408
Desiraju, T., 537
Desjardins, C., 68, 422
De Sombre, E. R., 31, 32, 34, 36, 37, 38, 39, 40, 41, 42
Dettbarn, W. D., 314, 315
Dettmar, P., 270
Devenport, L. D., 534
Devine, C. E., 8
Devor, M., 547, 548
de Wardener, H. E., 94, 96, 97, 98, 99, 100, 101, 102, 103, 104
Dewey, M. M., 206, 210, 212, 214
Dewhurst, P. B., 206
deWied, D., 398, 399
Dewson, J. H. III, 296
Dhariwal, A. P. S., 393, 398, 399, 403, 404, 413, 419, 420
Diamond, I. T., 305, 306
Diamond, J., 10, 14
Diamond, J. M., 102, 107
Diamond, L. K., 62
Diamond, M. C., 249
Di Cara, L. U., 542
Dicker, S. E., 83
Didow, L. A., 169
Dieckhoff, D., 469
Dies, F., 99, 100
Dietschy, J. M., 107
Dietz, S. B., 312, 313, 318
Dill, D. B., 156, 181, 592
Dingman, C. W., 66
Dinovo, E. C., 205
Dipolo, R., 245
Dirken, M. N. J., 595
Dirks, J. H., 91, 98, 104, 110
Dirscherl, W., 43
Disalvo, J., 117
Ditchburn, R. W., 229
Ditullio, V., 19
Ditzion, B. R., 321
Dixon, G. H., 322
Dixon, J. S., 411, 415
Djojosugito, A. M., 449
Dobbs, J. W., 17
Dobelle, W. H., 268
Döcke, F., 420, 422
Dodge, F. A., 480, 501, 511
Dodge, F. A., Jr., 219
Doeg, K. A., 70
Doetsch, G., 357
Doggenweiler, C. F., 249, 250
Doi, K., 166, 185, 187, 192
Dolezel, S., 8
Domino, E. F., 553
Domoto, D. T., 102
Donald, D. E., 451, 455
Donald, R. A., 399
Donath, T., 460
Donner, K. O., 208, 219, 264, 267
Donovick, P. J., 557
Donskikh, E. A., 516
Dormont, J. F., 371
Dorn, J. B., 98
Dörner, G., 420, 422
Dornesco, G. T., 578
Dorward, P., 4, 7
Douglas, E. L., 581, 589, 592
Dowling, J. E., 208, 209, 219, 220, 243, 244, 252, 257, 259, 260, 261, 262, 263, 264, 265, 267, 268, 270, 271, 272
Drane, J. W., 397
Dreifuss, J. J., 556
Dresel, P. E., 18
Drewery, W. I., 580
Droz, B., 213, 251
Drummond, G. I., 314, 317
Dubale, M. S., 571, 592
Dubin, M. W., 219
Dubrovsky, N. A., 305
Dudel, J., 482, 484, 498, 499, 504, 505, 510, 511, 512
Dufau, M. L., 425, 426, 427
Dugan, F. A., 68
Duling, B. R., 452, 453, 462
Dulmanis, A., 425, 426, 427
Dumont-Tyc, S., 343
Duncan, L., 314
Dunlop, C. W., 301, 302, 304
Dunlop, D., 448
Dunn, J., 400
Dunn, T. F., 408, 409
Dunningham, J. G., 100
Duvernoy, H., 395

E

Eager, R. P., 556
Earley, L. E., 94, 95, 101, 102
Easter, S. S., 266
Ebashi, S., 523
Ebeling, A. W., 595
Ebersole, J. S., 297
Ebling, E., 71
Ebling, F. J. G., 71, 393
Eboue-Bonis, D., 327
Ebrey, T. G., 208
Eccles, J. C., 4, 339, 347, 360, 365, 372, 373, 376, 382, 385
Eckstein, J. W., 446, 448, 465
Ederstrom, H. E., 158
Edholm, O. G., 156, 180
Edlich, R. F., 458
Edman, K. A. P., 3, 15
Edwall, L., 449
Edwards, D. A., 44
Edwards, G. A., 4
Edwards, H. T., 592
Edwards, R. H. T., 133, 134, 135, 136, 137, 138
Ehinger, B., 8, 270, 463
Ehrhardt, A. A., 52, 54, 64
Ehrlich, A., 338
Eichberg, J., 210
Eisenbach, G. M., 96
Eisenberg, R. S., 481, 484, 490
Eisenfeld, A. J., 34, 39, 43, 44, 47, 48, 420
Eklund, G., 365
Ekström-Jodal, B., 469
El Badawi, A., 446, 447, 464
Eldredge, D. H., 281-310; 283, 285
Elebute, O., 112
Eleftheriou, B. E., 68
Elger, W., 64
Ellinwood, E. H., 297
Elliot, E. C., 448
Ellis, D. J., 39, 40
Ellis, F., 37
Ellis, S., 427
Ellison, G. D., 535, 540, 542
Elmergreen, G. L., 430
Elstein, M., 424
Emanuel, M. B., 40
Emmens, C. W., 65
Emmer, M., 323
Endo, M., 523
Endröczi, E., 421
Engberg, I., 339, 360
Engebretson, A. M., 282, 283, 284, 285, 286, 291, 292
Engel, E., 484
Engel, L. L., 56, 57
Enroth-Cugell, C., 264, 266
Entine, G., 205, 221,

258, 265
Entman, M., 311, 327
Enzmann, F., 408, 409
Epstein, A. N., 533, 534, 536, 537, 538, 540
Epstein, F. H., 83, 86, 102, 103
Epstein, S. E., 4, 18, 311, 327
Eränkö, O., 4
Erdos, T., 38
Erichson Jones, J. R., 592
Eriksson, E., 181
Erlichman, J., 317
Ernst, W., 214, 215, 258
Erspamer, V., 582
Eskridge, J. B., 225
Etcheverry, G. J., 270
Evans, A., 37, 38
Evarts, E. V., 339, 354, 357, 358, 359, 370, 371, 375, 377, 378, 379, 380, 383, 385
Evenhuis, H. H., 573
Everett, J. W., 34, 417, 422
Everson, J., 592
Ewing, L. L., 59
Exley, D., 424, 425, 426
Exton, J. H., 311, 323, 324

F

Fabian, M., 264
Fadiga, E., 346
Fahmy, A. R., 71
Fahrenbach, W. H., 250
Faiman, C., 424, 426
Fain, J. N., 185
Falchuk, K. H., 95
Falck, B., 4, 8, 270, 463, 582, 583
Falk, G., 207, 210, 216, 481
Falk, R. J., 48
Fanelli, G. M., 580
Fang, S., 31, 43, 44, 46, 47, 48, 64, 67
Fänge, R., 581, 584
Fara, J. W., 464, 465
Farber, J., 594, 595, 597
Faredin, I., 399
Farese, R. V., 323, 324
Farhi, L. E., 133, 136, 137, 139, 144, 145, 151
Farley, B., 481, 526
Farner, D. S., 161, 162
Farnsworth, W. E., 46, 69
Farooq, A., 48
Fatt, P., 207, 210, 216, 481
Fawcett, C. P., 422, 425
Fawcett, D. W., 41
Feder, N., 247, 251
Feigl, E. O., 469
Fein, R. L., 98
Feinmesser, M., 289
Feldberg, W., 191
Feldman, S., 400
Felin, M., 413
Fellows, R. E., 409
Fender, D., 229
Ferenchak, R. P., 541
Ferguson, D. A., 451, 455
Ferguson, N. B. L., 546
Ferin, J., 424
Ferin, M., 424, 425, 426, 427
Fernández, C., 285, 286
Ferrario, G., 412
Ferry, C. B., 5
Fetz, E. E., 344, 347, 357, 361, 372, 378
Fewster, M. E., 245
Fex, J., 295, 296
Fidone, S. J., 368
Fiedler, A. J., 414
Fieschi, C., 469
Fillenz, M., 446, 447, 459
Filley, G. F., 132
Fineberg, S. E., 414
Finger, R. W., 533, 535
Finkelstein, D., 269
Fiorentini, A., 266
Fiorindo, R. P., 415, 422, 425
Fischbach, H., 87, 91, 92
Fishel, S. S., 68
Fisher, A. E., 548, 549
Fisher, H., 156, 157, 162
Fishman, A. P., 576, 594, 595, 597, 598
Fishman, J., 108
Fishman, W. H., 68
Fitzsimons, J. T., 536
Fleischer, N., 399, 404
Flerkó, B., 35
Floch, H. H., 53
Flohr, H. W., 470
Flom, M. C., 225
Florini, J. R., 68
Florkin, M., 592
Flynn, J. P., 540, 548
Foley, T. P., Jr., 415
Folkers, K., 408, 409
Folkow, B., 9, 449, 466
Fonberg, E., 556
Fontham, E. H., 396
Forbes, F. D., 593
Ford, R. W., 215, 218
Forrest, A. P. M., 37
Forster, R. E., 134, 135, 574
Forster, R. P., 83, 580
Foster, D. L., 427
Foster, K., 180, 181
Foster, R. S., 191, 192
Fox, R. H., 180, 181
Foxon, G. E. H., 576
Foxwell, M. H., 554
Fozzard, H. A., 484, 485, 512, 518, 519, 521
Frank, R. N., 208, 209, 219, 264, 265
Frankenhaeuser, B., 480, 499, 501, 508, 511, 514
Franklin, D. L., 465, 468, 579, 583, 587
Frascella, D. W., 191
Fraschini, F., 422
Free, C. A., 411
Freeman, B. M., 160
Freeman, M. E., 62
Fregly, M. J., 164, 177
Frehn, J. L., 184
Freidberg, S. L., 313
French, F. S., 53, 406
Freygang, W. H., 484, 485
Freysz, L., 244
Friborg, J., 465
Fried, W., 62
Frieden, E. H., 68
Friedler, R. M., 94, 95, 101
Friedman, R. M., 325
Friend, D. S., 528
Frierson, J. L., 451
Fries, J., 38
Frohman, L. A., 411
From, A., 536, 538
Fromm, P. O., 584
Frömter, E., 106
Fronek, A., 465
Fronek, K., 465
Frost, P., 48
Fry, F. E. J., 592
Fuisz, R. E., 111, 112, 113
Fujii, T., 67, 69
Fujimoto, S., 468
Fukami, I., 206
Fukami, Y., 206
Fülgraff, G., 99
Fuller, D. R. G., 347, 358, 371, 373
Fulton, A. B., 219, 264, 265
Funaki, S., 13
Funderburk, W. H., 554
Fuortes, M. G. F., 217, 250, 251, 252, 257, 259
Furchgott, R. F., 10, 445
Furness, J. B., 447, 469
Furuya, N., 46, 67, 68
Fuxe, K., 4, 418, 447, 450, 451, 464

G

Gabella, G., 7
Gacek, R. R., 295
Gaebler, O. H., 121
Gage, P. W., 490
Gaide-Huguenin, A. C., 210

Galambos, R., 290, 297, 301
Galaske, R., 96
Galdston, M., 132
Gale, C. C., 415
Galicich, J., 99
Galifret, Y., 222
Gallagher, T. F., 61
Gallistel, C. R., 545
Gallo, R. V., 557
Gallouin, F., 357
Galton, V. A., 164, 165, 179, 191
Gandelman, R., 544
Gandy, H. M., 424, 425, 426
Gannon, J., 582, 583
Gannon, R. P., 282, 283, 292, 294
Ganong, W. F., 393
Garabieta, G., 43
Garcia Romeu, F., 585, 587, 588
Gardner, E., 349
Gardner, E. B., 357
Gardner, F. H., 62
Garella, S., 97
Garey, L. J., 226
Garey, W. F., 570, 579, 580, 581, 589, 590, 591, 593, 594, 595
Garfias, C. K., 538
Gargouil, Y. M., 482, 483, 488, 498, 506, 511, 513, 514, 515, 519
Garlick, D. G., 448, 450
Garnier, D., 482, 483, 488, 498, 506, 511, 513, 514, 515, 519
Garoutte, B., 371
Garren, L. D., 322, 323
Garry, R., 409, 410
Gaskell, W. H., 582
Gauthier, F., 44, 52, 53
Gay, V. L., 427
Gazitua, S., 468
Gazzaniga, M. S., 230
Geffen, L. B., 4, 5
Gehlsen, G., 181
Geisler, C. D., 303
Gelehrter, T. D., 68
Gelfan, S., 352
Geller, J., 43
Genest, J., 461
Georg, J., 145
George, W. J., 312
Gernez, C., 222
Gero, J., 448, 451, 462
Gerová, M., 8, 448, 451, 462
Gerschenfeld, H. M., 241, 242
Gershon, M. D., 4, 7
Gersten, B. E., 397, 411
Gertz, K. H., 86, 89, 90, 92
Geschwind, I. I., 417
Gessert, C. F., 286
Geuze, J. J., 398
Ghose, A., 176
Ghouri, M. S. K., 3
Giannopoulos, G., 42
Giarman, N. J., 1
Gibbs, C. L., 522
Gibbs, F. P., 401, 402, 406
Gibson, S., 192
Giebisch, G., 83, 88, 91, 105
Gilbert, R., 169, 170, 172
Gill, G. N., 322, 323
Gill, J. R., Jr., 99
Gillespie, J. S., 4, 5, 6, 7
Gillette, P. N., 61, 62
Gilman, A., 549, 554
Gilmore, J. P., 99
Giménez, M., 241
Ginsborg, B. L., 229
Ginter, E., 186
Girardier, L., 171, 528
Gisolfi, C., 180
Gissien, J. L., 456
Gitelman, H. J., 101
Giuditta, A., 244
Glabman, S., 119
Glascock, R. F., 31
Glauser, E. M., 576
Glauser, S. C., 576
Glazier, J. B., 147
Gleave, E. N., 37
Glick, G., 4
Glick, S. M., 414
Glickman, S. E., 548
Glinsmann, W. H., 322, 323, 324
Gloor, P., 556
Gloyna, R. E., 43, 44, 45, 54
Glusman, M., 547
Goblick, T. J., Jr., 293, 294
Godin, D., 19
Goding, J. R., 422, 427
Godon, J. P., 102
Goebelsmann, U., 424, 426
Goetz, K. L., 582
Goff, W. R., 298
Gold, H. K., 327
Gold, R. M., 535
Goldberg, J. M., 299, 300, 301
Goldberg, L. I., 463
Goldberg, N. D., 312, 313, 316, 317, 318
Goldberger, M. E., 338, 384, 387
Goldman, B. D., 422, 427
Goldman, D. E., 488
Goldman, I. M., 18, 19, 448
Goldman, J. M., 327
Goldring, S., 242, 243, 297, 298
Goldstein, E. B., 209, 213
Goldstein, J. L., 283, 285, 293
Goldstein, L., 111, 112, 118, 580
Goldstein, M. H., Jr., 232, 305
Golenjofen, K., 582
Gómez, D. M., 149
Gomez, E. C., 44, 48
Gonzalez-Luque, A., 398, 399, 403
Goodford, P. J., 12
Goodhead, B., 458, 461
Goodman, A. D., 111, 112, 113, 114, 115, 117, 118, 325
Goodman, D. A., 302
Goodman, H. M., 456
Goodman, L. S., 549, 554
Goodner, C. J., 415
Goodrich, E. S., 575
Goorno, W. R., 113, 115, 116
Gorbman, A., 66, 67
Gordon, A. S., 62
Gordon, G., 347
Gordon, J., 34, 37, 43, 59
Goren, E., 317
Gori, Z., 55
Gorman, A. L. F., 359
Gorshein, D., 62
Gorski, J., 31, 32, 37, 38, 39, 41, 42, 43, 68, 70
Gorski, R., 418
Gorski, R. A., 67
Gosbee, J. L., 396, 397
Goshima, K., 528
Gospodarowicz, D., 38
Gotlin, R. W., 414
Goto, M., 490, 518, 519, 520, 521, 522
Gottlieb, S. H., 527
Gottschalk, C. W., 84, 85, 87, 91, 92, 93, 94, 95, 107, 108
Gottstein, V., 470
Gouras, P., 224, 267, 268
Govier, W. C., 18, 328
Govyrin, V. A., 582
Goy, R. W., 43, 64
Graham, J. A., 525
Graham, J. D. P., 446
Graham, N., 266
Grampp, W., 350, 351, 354
Granick, S., 61, 62
Granit, R., 339, 365, 366, 379, 380
Grant, J. K., 43, 64

Grantham, J., 106
Gras, W. J., 211
Grav, H. J., 170
Gray, E. I., 570
Gray, G. M., 70
Gray, J. P., 312, 315, 318
Gray, S. D., 449, 450
Green, A. R., 193
Green, D. E., 204
Green, D. G., 224
Green, D. M., 299
Green, G. W., 587
Green, M. R., 251
Green, R., 35, 43, 44
Green, W. E., 103, 104
Greene, C. W., 581
Greenfield, A. J., 468
Greengard, P., 59, 311, 313, 314, 322, 323
Greenwald, G. S., 34, 35, 420, 422
Greenwald, L., 161, 162
Greenway, C. V., 448, 459, 460
Greer, M. A., 402
Grega, G. J., 452
Gregg, D. E., 448
Gregoir, F., 132
Gregoire, A. T., 70
Griffin, D. M., 326
Griffiths, K., 37, 71
Grigg, G. C., 573, 575, 576, 586, 588, 591, 592, 593, 594, 595, 597
Grim, E., 458
Griminger, P., 156, 157, 162
Grimm, Y., 403
Grimstone, A. V., 571, 572
Grodzinski, Z., 580
Groenewald, J. H., 62
Grollman, J. H., 463
Gross, S., 191
Grossman, M. I., 458
Grossman, R. G., 242
Grossman, S. P., 535, 539, 544, 545, 549, 553, 554, 555, 557
Grota, L. S., 406
Gruber, J., 295
Grumbach, M. M., 413
Grüsser, O. J., 226, 269
Grüsser-Cornehls, U., 269
Gual, C., 393
Gubachev, I. U. M., 189
Gudmundsson, G., 3, 13, 14
Gueriguian, J. L., 49
Guevara, A., 425, 427
Guggenheim, S., 325
Guidotti, G., 204
Guidry, A. J., 182
Guillemin, R., 393, 399, 408, 409, 417
Guinan, J. J., Jr., 281
Guinness, B. J., 70
Gullickson, C., 402
Gulyassy, P. F., 316
Gumbreck, L. G., 53
Gunaga, K. P., 68
Gupta, B. L., 248
Gurney, C. W., 62
Gurpide, E., 33
Gurtner, G. H., 136, 137
Guyatt, A., 135
Guyda, H., 424
Guzzo, A. V., 207

H

Haacke, H., 524
Haard, N. F., 204
Habeck, D. A., 169
Haber, B., 269
Haber, C., 62
Hacker, B., 66
Haddox, M. K., 316, 317
Haddy, J., 468
Hadley, M. E., 327
Haefely, W., 5
Haeger, K., 449
Haeusler, G., 5
Hafs, H. D., 68
Hagamen, W. D., 306
Hagbarth, K. E., 350, 365, 366
Hagerman, D. D., 56, 57, 65
Haggendal, E., 469
Häggendal, J., 1, 4
Hagins, W. A., 212, 214, 215, 216, 217, 258, 271
Hagiwara, S., 516
Hahn, L., 182
Hahn, W. E., 66
Hainsworth, F. R., 161
Hajdu, S., 524
Halász, B., 419
Halberg, F., 407
Halboth, P. H., 552
Haldane, J. B. S., 595
Haley, T. J., 3
Halkerston, I. D. K., 326
Hall, E. M., 318
Hall, I. L., 46
Hall, J. L. II, 305
Hall, M. O., 207, 209, 213, 257
Hall, M. T., 327, 328
Hall, R., 409, 410
Hall, R. D., 297
Hallac, P., 49
Halle, W., 481, 526
Haller, E. W., 422
Halpern, L. M., 371
Hama, T., 69
Hamadah, K., 321
Hamasaki, D. I., 251
Hamberger, A., 244
Hamberger, B., 4
Hamidi, M., 163, 179
Hamilton, C. L., 538, 539
Hamilton, D. N. H., 6
Hamilton, J. G., 71
Hamilton, T. H., 64, 65, 67
Hammel, H. T., 156, 168, 181
Hammer, C. T., 415, 416
Hammond, P., 267
Hampton, I. F. G., 166
Hampton, T. L., 242
Han, P. W., 534
Handler, J., 325
Handler, P., 119
Hane, S., 587
Hannon, J. P., 187
Hanoune, J., 327
Hansen, S. M., 226
Hanslip, A., 593
Hanson, D., 570, 571, 573, 574, 577, 578, 579, 580, 584, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 599
Hanson, J. S., 132
Hanssen, O. E., 87
Hara, K., 422, 427
Harary, I., 481, 526, 527
Hardman, J. G., 311-36; 19, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 323, 324
Hardy, J. D., 156
Harland, W. A., 185
Harmelin, M. L., 592
Harmon, A., 121
Harmon, B. G., 189
Harper, A. E., 189
Harper, M. E., 71
Harri, M., 192
Harrington, L., 501
Harris, E. J., 16
Harris, F. A., 346
Harris, G. W., 417
Harris, W. S., 582
Harrison, J. M., 299
Harrison, P. C., 162
Harrower, A. D. B., 181
Hart, J. S., 156, 157, 158, 159, 163, 166, 168, 173, 175, 587
Hartmann, R. C., 319, 327
Hashimoto, H., 220, 244, 257, 260, 263
Hashimoto, Y., 4
Hasselblatt, A., 316
Hassler, R., 346, 350, 370, 372, 382
Hatch, F. E., 83, 466
Hätzel, I., 31, 32, 34, 37, 38, 40
Haupt, O., 71
Haus, E., 407
Hauswirth, O., 482, 484, 486, 488, 498, 516

Havel, R. J., 456
Hawkins, J. T., 17
Hawkins, R. A., 36
Hay, J. B., 70
Hayaishi, O., 313
Haymaker, W., 393, 555
Hays, F. L., 163, 168, 172, 173, 175
Hayslett, J. P., 86, 102, 103
Hayter, C. J., 103
Hayward, J. S., 169, 172, 175
Hazelhoff, E. H., 573
Hazelton, D. W., 302
Heald, P. J., 36, 65
Heath, A. G., 592, 593
Hebb, C., 556
Hechter, O., 314, 325, 326
Hecker, F., 41
Hedge, G. A., 403
Hegel, U., 106
Heidenreich, O., 99
Heidrick, M. L., 325, 326
Heilman, R. D., 7
Heim, F., 58
Heimer, L., 556
Heinrich, H., 459
Heinrichs, W. L., 40, 49, 420
Heipertz, R., 470
Heitman, J. H., 172, 173, 175
Heitz, D. C., 450
Held, K., 469
Hellam, D. C., 518, 519, 521
Heller, J., 204, 205, 206, 207
Hellman, L., 407
Helmrich, H. G., 212
Hemingway, A., 163, 168, 175
Hemmingsen, E. A., 581, 589, 592
Henane, R., 156, 179
Hendler, N. H., 554
Henn, F. A., 526, 527
Henn, V., 269
Henneman, E., 370
Henning, G. B., 299
Henriksen, R. A., 205
Henry, G. H., 227
Henry, P. D., 328
Hensel, H., 156
Hepp, K. D., 316, 317
Heppner, R. L., 518, 519, 520, 521, 522
Herberg, L. J., 548
Herd, P. A., 171
Hern, E. P., 322, 323, 324
Heroux, O., 163, 164, 165, 168, 175, 179, 190, 191
Herreid, C. F., 157, 158
Herrera, M. G., 536
Herrera-Acosta, J., 87, 91, 92, 93
Herrero, S., 534
Herrmann, W. L., 49, 420
Hervey, G. R., 539
Herzfeld, A., 69
Herzmann, J., 35
Hess, H. H., 210, 245
Hess, W. R., 546, 548
Heuser, J. E., 249, 250
Heusner, A., 592
Heyns, A., 179, 180
Hickenbottom, J. P., 322
Hicks, A. M., 163, 168
Hickson, J. C. D., 459
Hierholzer, K., 86, 88
Higgs, B. E., 133, 138
Hild, W. J., 243
Hilding, D., 288
Hilf, R., 56
Hill, R. T., 554
Hillarp, N. Å., 4
Hille, B., 216
Hilliard, J., 422
Hillier, A. P., 164, 165, 179, 191
Hillman, C. C., 316, 328
Hills, B. A., 589
Hilton, S. M., 451, 454
Himal, H. S., 458
Himms-Hagen, J., 1, 170, 171, 172, 185, 188
Himsworth, R. L., 537
Hind, J. E., 291, 292, 293
Hines, M., 354
Hinson, T. C., 414
Hiraide, F., 295
Hirano, T., 559
Hirata, M., 313
Hirone, T., 67
Hirooka, K., 156
Hiroshige, T., 164, 166, 172, 398
Hirota, I., 371, 373
Hirsch, E. F., 581
Hirsch, J. E., 305
Hirtenstein, M. D., 206, 207
Hissa, R., 158, 159, 160, 175
Hittelman, K. J., 170, 171
Hluszko, H. T., 187
Hobson, R. R., 209, 264, 265
Hock, R. J., 163, 168
Hodges, J. R., 402
Hodgkin, A. L., 480, 481, 494, 499, 501, 505, 506, 508, 511, 514, 518
Hodgson, T., 180
Hodson, S., 245
Hoebel, B. G., 533-68; 534, 535, 539, 543, 544, 545, 546, 547, 548, 554
Hoekstra, W. G., 31
Hoffman, B. F., 516
Hoffman, J. F., 109
Hoffman, R. T., 207
Hoffmann, M., 316
Hoffsten, P., 101
Höfler, W., 181
Hofmann, R., 182
Hofmeyr, H. S., 182
Hogben, C. A. M., 107
Högberg, S. G. R., 16
Høglund, L. B., 597
Hohorst, H.-J., 170, 171
Hoijer, D. J., 184, 187, 189
Hökfelt, T., 4, 418
Hol, R., 575, 579
Holden, A. L., 273
Holdsworth, L. D., 179
Holeton, G. F., 576, 583, 586, 587, 588, 589, 590, 591
Holland, W. C., 516, 517
Hollands, B. C. S., 7
Hollenberg, N. K., 467
Holman, M. E., 2, 4, 6, 7, 9, 12, 13
Holub, D. A., 402
Holwell, B. J., 570, 592, 594, 595
Holz, S., 2
Honda, F., 316
Hongo, T., 369, 370
Honig, C. R., 18, 450, 451
Honrubia, V., 283, 286, 290, 294
Hook, J. B., 103, 463, 467
Hooper, K. C., 68
Hoopes, J. J., 346
Hooten, T. F., 558
Hopkins, S. M., 69
Hopkinson, P., 68
Hore, J., 367
Horgan, J. D., 430, 569, 598
Hori, T., 422
Horn, L., 13
Hornbrook, K. R., 10
Horowitz, J. M., Jr., 171
Horrobin, D. F., 430
Horsfield, K., 141, 142, 143, 145
Horský, J., 35
Horster, M., 84, 85, 90, 92, 93, 96
Horvath, F., 381, 382, 384
Horvath, S. M., 155, 159, 180, 181, 183, 189
Horwitz, B. A., 160, 168, 169, 170, 171, 172, 173, 174, 175, 185, 191, 456

Hosek, B., 163, 173, 175
Hosie, R. J. A., 6
Hottenstein, M., 270
Houston, A. H., 569, 598
Hovland, D. N., 424
Howards, S. S., 87, 91, 92, 100, 104
Hsia, S. L., 44, 48
Hsie, A. W., 325
Hsieh, A. C. L., 164, 165
Hubbard, R., 204
Hubbard, R. W., 185
Hubel, D. H., 224, 227, 230, 231, 232, 341
Huch, A., 133, 146
Huckabee, W. E., 64
Hudlická, O., 451, 452
Hudson, B., 425, 426, 427
Hudson, J. W., 162, 177
Huff, S. D., 69
Huggins, C., 32, 37
Hughes, G. M., 569, 570, 571, 572, 573, 574, 575, 589, 592, 595, 598
Hughes, J. M. B., 147
Hughes, S. D., 325
Hukuhara, T., 595
Hull, D., 172
Hultborn, H., 369
Hultén, L., 464
Humphrey, D. R., 359, 374, 377, 378, 380, 383
Humphreys, P. W., 180, 181
Hunkeler, F. L., 316
Hunt, C. C., 348
Hurlimann, A., 5
Hurst, D. J., 31, 32, 34, 37, 38, 40
Huston, R. B., 316
Hutchins, M. O., 179
Hutchinson, K. J., 4
Hutchinson, R. R., 548, 552
Hutter, O. F., 16
Huxley, A. F., 480, 481, 494, 499, 501, 505, 506, 508, 511
Hyde, A., 527, 528
Hydén, H., 244, 245
Hynie, S., 316
Hyvarinen, J., 344, 348

I

Iberall, A. S., 418
Ibuki, T., 421
Ichikawa, Y., 422
Ichinose, R. R., 69
Ide, H., 68
Ide, M., 422
Iggo, A. A., 348
Ikeda, H., 208, 271
Ikeda, M., 447
Ikemoto, H., 172
Illei-Donhoffer, A., 35
Imamura, H., 316
Imbert, M., 340, 341, 343, 346
Inaba, M., 34, 420
Ing, T., 167
Ingenito, A. J., 192, 193
Ingram, D. L., 182
Ingvar, D. H., 469, 470
Inman, D. R., 34, 36, 37
Inskeep, E. K., 62
Inuzuka, K., 203
Ionesco, B., 52
Iosif, G., 371
Irie, M., 414
Irrverre, F., 205
Irvin, J. D., 469
Irvine, G., 446, 447
Irvine, W. T., 37
Irving, L., 156, 157, 158, 166, 588
Irving, R., 299
Isaacson, L., 106
Ishii, D., 287, 295
Ishii, T., 295
Ishijima, T., 371
Ishikawa, E., 312, 315
Ishikawa, H., 396
Ishikawa, S., 312, 315
Ishikawa, T., 260, 263
Island, D. P., 44, 53, 407
Ito, H., 215, 258
Ito, M., 373, 385
Ito, Y., 46
Itoh, S., 164, 166, 172, 185, 187, 192, 398
Iurato, S., 286
Iversen, L. L., 2, 4, 5, 8, 192
Iwai, T., 571
Iwayama, T., 447, 469

J

Jacob, R., 518, 519, 520, 522
Jacobowitz, D., 7, 270, 446, 461
Jacobs, B. L., 540, 542
Jacobs, G. H., 257
Jacobs, H. L., 533, 550
Jacobs, L. S., 415, 416
Jacobson, E. D., 458, 462, 465
Jacobson, H. I., 31, 32, 33
Jacobson, J. H., 454
Jacobson, W., 62
Jaffe, R. B., 46, 424, 426, 427
Jaffe, S. L., 306
Jahrmarker, H., 83
Jailer, J. W., 402
James, I. M., 469
James, V. H. T., 37
Jamison, R. L., 90
Jane, J. A., 305, 306
Janicki, R. H., 118
Janig, W., 347
Jankowska, E., 343, 369, 370
Jankowsky, H. D., 592
Janowsky, D. S., 321
Jansky, L., 163, 166, 171, 172, 173, 175, 176, 189
Jansson, G., 458
Jarabak, J., 57
Jard, S., 322
Jarett, L., 323
Jarman, G. M., 569, 589, 591, 598
Jarratt, A. M., 188
Jarumiya, K., 396
Jasper, H., 358, 359
Jasper, H. H., 339
Jassik-Gerschenfeld, D., 346
Jeanrenaud, B., 311
Jeddi, E., 175
Jeffress, L. A., 301
Jeffries, M. G., 451
Jellinek, M., 581
Jenkinson, D. H., 10, 11, 12
Jenkinson, D. M., 172
Jennings, W. H., 212
Jenny, C., 184
Jensen, A. H., 189
Jensen, D., 580, 581, 582
Jensen, E. V., 31, 32, 33, 34, 36, 37, 38, 39, 40, 41, 42
Jensen, K. B., 14
Jensen, V., 37
Jerger, J., 298
Jerger, S., 298
Jergil, B., 322
Jesse, M. J., 576, 595, 597
Jewell, B. R., 2
Jodal, M., 464
Joel, C. D., 173
Joel, P. B., 56, 57, 65
Johannon, B., 3, 9, 13
Johansen, K., 569–612; 167, 570, 571, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599
Johanson, A. J., 424
Johansson, B., 446, 450, 451, 452, 461, 462
Johansson, E. D. B., 424, 425, 426
Johansson, H., 37
Johle, J., 469
Johnels, A., 581
Johnson, E. A., 479–532; 481, 482, 483, 484, 486, 488, 493, 500, 501, 502, 503, 522, 526

Johnson, H. D., 178, 179, 182, 190, 191
Johnson, J., 557
Johnson, J. G., 83, 466
Johnson, P. C., 461, 462
Johnson, R. E., 158, 161, 422
Johnson, R. H., 346
Johnston, C. I., 100, 103
Johnston, P. V., 244
Johnstone, B. M., 282, 285, 289
Johnstone, C. G., 289
Johnstone, J. R., 285
Jones, A. W., 3, 14, 445, 446, 470
Jones, D., 37
Jones, D. J., 320, 321
Jones, D. R., 569, 589, 591, 598
Jones, E. G., 345, 370
Jones, G., 133, 135, 136, 138
Jones, G. M., 375
Jones, J. G., 145
Jones, N. L., 132, 133, 134, 135, 137, 138
Jongkees, L. B. W., 290, 294
Jonsson, G., 4
Jonsson, O., 3, 13, 452
Jordan, H. A., 541
Joseph, P. K., 117
Joshi, V. C., 183
Joshua, D. E., 228, 229
Josimovich, J. B., 320, 321
Jost, J. P., 325
Journey, L. J., 245
Jowett, A., 4, 9
Joy, R. J. T., 163, 173, 175
Judd, H. D., 222
Jühe, H., 43
Jukes, M. G. M., 347
Julesz, B., 225, 229
Julien, M.-F., 164, 165
Jund, R., 184
Jung, I., 37, 40, 47, 48
Jung, R., 227
Junga, I. G., 204
Jungblut, P. W., 31, 32, 34, 36, 37, 38, 39, 40, 41
Junge, K., 371
Junqueira, L. C., 571
Jurf, A. N., 99
Jutisz, M., 408
Jütting, G., 33

K

Kadish, A. H., 393
Kadowaki, M., 422, 425
Kahwanago, I., 420
Kaibara, M., 395
Kaihara, S., 464, 468
Kajihara, A., 410
Kakiuchi, S., 316, 328
Kakolewski, J. W., 534, 546, 547, 548, 556
Kaley, G., 98, 463
Kalra, P. S., 422, 425
Kalra, S. P., 422, 425, 557
Kamberi, I. A., 422, 427
Kameda, K., 339, 340, 343, 347, 355, 358, 359, 360, 386
Kamimura, M., 320
Kamin, H., 119
Kaminsky, N. I., 318, 319, 320, 321
Kamiyama, A., 489
Kamm, D. E., 111, 114, 115
Kaneko, A., 214, 220, 244, 257, 258, 260, 261, 263, 271, 272
Kanematsu, S., 416, 422
Kang, B. S., 163, 168, 173, 175
Kanzow, E., 469
Kao, F. F., 468
Kaplan, S. L., 413
Kaplinski, M., 543, 544
Kappas, A., 61, 62
Karahashi, Y., 242, 243
Karavolas, H. J., 56, 57
Karim, S. M. M., 422, 429
Karl, I. E., 409, 412
Karli, P., 548
Karlson, P., 64
Karnovsky, M. J., 246, 247
Karsznia, R., 49
Kasby, C. B., 4, 9, 13
Kashgarian, M., 86, 102, 103, 107, 108
Kastin, A. J., 397, 422
Kato, E., 226
Kato, J., 34, 420
Kato, K., 68
Kato, T., 245
Katsuki, Y., 290, 301
Katz, B., 481, 501
Katz, H. P., 413
Katz, R., 62
Katz, S. H., 413
Kaufman, A. B., 422
Kaufman, W. C., 169, 172
Kaufmann, R., 518, 519, 520, 522, 527
Kawakami, M., 419, 421
Kawashima, T., 31, 32, 34, 37, 38, 39, 40, 41
Kawata, H., 518, 519, 520, 521, 522
Kayaalp, S., 457
Kayser, C., 184, 592
Kazdova, L., 186
Keatinge, W. R., 4, 8, 13, 582
Keck, W., 98
Keesey, R. E., 538, 539, 540, 546, 556
Keimowitz, R. I., 95
Kelly, J. S., 242
Kelly, W. G., 40
Kelsey, E., 287, 288, 290
Kemp, R. G., 19
Kempton, R. T., 570
Kendall, J. I., 571, 575
Kendall, J. W., 401, 402, 403, 410
Kennedy, T. T., 340, 341
Kenny, G. M., 62
Kent, E., 544, 545
Kereszti, Z., 189
Kerkay, J., 189
Kermani, M. H., 7
Kernell, D., 367, 368, 386
Keselica, J., 541
Kety, S. S., 469
Keys, A., 584
Khanna, S. M., 281
Khazen, K., 415
Kiang, N. Y. S., 283, 285, 290, 292, 293, 294, 295
Kibler, H. H., 178, 182
Kida, J., 319
Kidman, A. D., 311
Kidson, C., 52
Kiil, F., 466
Killeffer, F. A., 533
Kim, T. S., 326
Kimbel, R. L., Jr., 205, 206, 207
Kimzey, S. L., 162
King, E. E., 49
King, J. R., 161, 162
King, M. B., 548
King, M. P., 469
King, R. D., 465
King, R. J. B., 34, 35, 36, 37, 42, 43, 59
King-Smith, P. E., 222
Kinston, W. J., 226
Kipnis, D. M., 312, 313, 323, 325, 327, 409, 412
Kirby, S., 585
Kirkpatrick, W. E., 191, 192
Kirpekar, S. M., 5
Kirschfeld, K., 212
Kirshman, J. D., 102, 105
Kirton, K. T., 427
Kishida, K., 270
Kishimoto, T., 466
Kissel, J. H., 58
Kissileff, H. R., 536, 537, 538
Kitabchi, A. E., 325, 327
Kitay, J. I., 400, 402
Kitsikis, A., 340, 346
Kitzes, L. M., 302
Kitzes, M., 297
Kjällquist, A., 470
Kjekshus, J., 466

Klaas, D., 170
Klahr, S., 325
Klain, G. J., 187, 189, 191
Klainer, L. M., 313
Klatzo, I., 247, 251
Kleerekoper, H., 575
Kleinzeller, A., 108
Klika, E., 571
Klinke, R., 295
Klose, R. M., 91
Klussmann, F. W., 156
Kluyskens, P., 288
Kniewald, Z., 422
Knight, B. W., 219, 266
Knobil, E., 413, 415, 424, 425, 426, 427
Knotkova, A., 108
Knox, F. G., 87, 91, 92, 99, 100, 104
Knox, W. E., 69
Knuppen, R., 32, 71
Knych, E. T., Jr., 43
Kobata, A., 319
Kobayashi, F., 67, 422, 427
Kobayashi, H., 395
Kobayashi, N., 551, 556
Kobayashi, T., 34, 395, 420
Koch, B., 399
Koch, K. M., 95, 102
Kochakian, C. D., 64, 67, 68, 69
Kockova, J., 163, 171, 172, 173, 175, 176
Kodama, A., 184
Koelle, G. B., 270
Koenig, H. L., 251
Koepchen, H.-P., 132
Koeze, T. H., 366, 367
Kogura, J., 67
Kohler, P. O., 48, 64, 66, 67, 68
Koide, S. S., 64, 65
Kolb, H., 259, 262, 268
Kolin, A., 470
Komisaruk, B. R., 557, 558
Kondo, C. Y., 557
König, E., 299
Konijn, T. M., 318, 319
Konishi, T., 287, 288, 290, 293, 294
Kono, T., 327, 328
Kontogiannis, J. E., 156
Kontos, H. A., 454
Kopin, I. J., 1, 8
Korenman, S. G., 37, 38, 39, 40, 41, 48, 64, 66, 67, 68
Koritke, J. G., 395
Korn, E. D., 211
Körner, L., 349
Kosaka, M., 168
Koseki, T., 164
Kosterlitz, H. W., 7
Köstlin, A., 289
Kosto, B., 55
Kostyo, J. L., 422
Kostyuk, P. G., 360, 361
Kotani, M., 48
Kotby, S., 178
Kots, Y. M., 362
Kötter, D., 133, 146
Kovach, A. G. B., 456
Kovács, K., 399
Köves, K., 419
Kowarski, A., 44, 47
Kozlovskaya, I., 376, 381, 382, 384
Kraay, R. J., 34
Kraemer, H. C., 67
Krähenbühl, C., 71
Kraicer, J., 396, 397
Kramer, K., 98, 465
Kraulis, I., 35
Kraus, E., 33
Krauthamer, G. M., 346
Kravitz, E. A., 242
Krawkow, N. P., 584
Krebs, E. G., 19, 59, 316, 322, 323
Krebs, H., 541, 554
Krebs, H. A., 118
Kregenow, F. M., 109
Krimsky, I., 536, 538
Krishna, G., 316
Kriz, W., 83
Krnjević, K., 242, 243
Krog, J., 166, 579, 582
Krogh, A., 139
Kropf, A., 207
Kruger, L., 344
Krulich, L., 411, 413, 422, 425
Krupp, M. A., 587
Krüskemper, H.-Z., 63
Kruysse, A., 570, 572, 573, 584, 585, 587, 590
Kubo, T., 99, 100
Kuehl, F. A., 316
Kuffler, S. W., 241, 242, 243, 244, 245, 247, 248, 249, 252, 253, 271
Kuijpers, W., 288
Kukovetz, W. R., 19
Kulaev, B. S., 583
Kumar, A., 394
Kunitaro, T., 516
Kuntzman, R., 63
Kuo, J. F., 59, 322, 323
Kuohung, P. W., 522
Kupiecki, F. P., 316
Kurihara, H., 46
Kuriyama, H., 4, 7, 11, 12, 14
Kuriyama, K., 269
Kurokawa, M., 245
Kuroshima, A., 166, 185, 187, 192
Kurrasch, M., 448, 460, 461, 462
Kurtzman, N. A., 101, 103
Kuss, E., 33
Kuwano, M., 323
Kuypers, H. G. J. M., 338, 345, 372, 384
Kylstra, J. A., 144

L

Laaff, H., 99
Labat, R., 580, 584
Labhsetwar, A. P., 422
Ladpli, R., 338
La Force, R. C., 141, 142
Lagasse, A., 571
L'Age, M., 398, 399, 403
Lahiri, S., 594, 595, 598
Lamarre, Y., 352, 353, 357
Lamas, J., 48
Lamb, J. F., 516, 517, 525, 527
Lamport, H., 430
Landau, W. M., 347
Landgren, S., 349, 351, 352, 353, 354, 358, 384
Lands, A. M., 448
Landwehr, D. M., 91
Langan, T. A., 59, 322
Langer, G. A., 506, 523, 527
Langer, K. H., 86
Langer, S. Z., 5, 6
Langford, T. L., 301
Langley, P. E., 319, 327
Langold, M., 49
Langston, J. B., 466
Lanphier, E. H., 144
Laragh, J. H., 102, 105
Laron, Z., 56
Lasansky, A., 241-56; 246, 247, 250, 251, 252, 260
Lasiewski, R. C., 161
Lasko, V., 558
Lasnitzki, I., 47, 51, 54
Lassen, N. A., 145, 469, 470
Lassiter, W. E., 87, 91, 92, 93, 95
Laszlo, C. A., 282, 283, 292, 294
László, F., 399
Laszlo, G., 134, 135
Laties, A., 252, 273
Laties, A. M., 226, 270
Lauler, D. P., 98, 99, 100
Laumas, K. R., 37, 43, 48
Laurent, F., 179
Laurent, P., 577, 580, 582, 584, 598
Laursen, A. M., 338, 368, 380
Lawrence, D. G., 338, 384

Lawrence, M., 285, 290
Lawrence, M. A., 204
Lawson, A. E., 448, 460
Lawton, I. E., 422
Lea, M. A., 68
Leblanc, F. E., 371
LeBlanc, J., 163, 176
Lechene, C., 83
Leduc, J., 170, 172
Lee, C. Y., 7, 10
Lee, S. L., 524
Leeber, D. A., 105
Lefkowitz, R. J., 313
Legouix, J.-P., 282, 291, 292, 294
Legrand, M., 193
Lehmann, W. D., 32
Lehmkuhl, D., 481, 526, 527, 528
Lehninger, A., 244
Leibowitz, S., 549, 550
Leicester, J., 230, 262
Leivestad, H., 584, 592, 594
Lelek, A., 571
Le Magnen, J., 533, 536, 537, 539, 541
Lemahieu, M. A., 50, 67
Lemaire, R., 180
Lemon, H. M., 36, 37
Lenaz, G., 204
Lenfant, C., 149, 151, 570, 571, 574, 576, 577, 578, 579, 580, 586, 587, 588, 589, 591, 592, 593, 594, 595, 596, 597, 598, 599
Lennerstrand, G., 381
Leonard, E., 111
Leonard, S. L., 60, 70
Leont'eva, G. R., 582
Lettvin, J. Y., 266
Lever, J. D., 446, 447
Levere, R. D., 61, 62
Levey, G. S., 18, 311, 313, 327
Levick, W. R., 219, 265, 266, 268, 269
Levin, W., 63
Levine, D. Z., 84, 85, 91, 92, 93, 96
Levine, L., 245, 412
Levine, N., 98
Levine, R. A., 316, 319, 326
Levitt, M., 343, 344, 360
Levy, A. M., 132
Levy, B., 10, 448
Lewis, B. M., 141, 142
Lewis, G. P., 455
Lewis, J. E., 2
Lewis, M. S., 205
Lewis, P. R., 4
Lewis, S. E., 316, 319
Lewis, V. G., 52, 54, 64
Lewy, J. E., 94, 95
Leymaire, P., 49
Leyssac, P. P., 84, 85, 86, 87, 89, 91, 92, 93, 94
Li, C. C., 406
Li, C. H., 411, 415
Li, K. M., 164, 165
Liao, S., 31, 43, 44, 46, 47, 48, 64, 67
Liao, T., 301
Libby, P. R., 66
Liberson, W. T., 297, 298
Lichtensteiger, W., 192
Licker, M. D., 269
Liddle, G. W., 44, 53, 318, 319, 320, 321, 327
Liebau, G., 87, 91, 92
Lieberman, M., 479-532; 481
Liebeskind, J., 344, 352, 353, 357, 358, 381
Liebman, P. A., 205, 209, 221, 222, 224, 252, 258, 265, 273
Light, C., 424
Lightbody, J., 245
Lin, A. H., 67
Lin, Y.-C., 160
Linarelli, L. G., 323, 324
Lind, A. R., 180, 181
Lindberg, O., 170, 171
Lindhard, J., 139
Lindsay, R., 517
Lindstrom, S., 369
Linford, R. H., 458
Ling, G. M., 58, 59, 68, 463
Ling, G. N., 3
Linta, J. M., 592, 593
Lipham, E. M., 87, 91, 92, 93, 95
Lipmann, F., 315
Lippross, H., 582
Lipschitz-Wiesner, R., 66
Lipscomb, H., 399
Lipscomb, W. N., 323
Lipsett, M. B., 424, 425, 426
Lipton, J. M., 540
Lipton, R., 311
Lisander, B., 449
Lishajko, F., 581, 582
Lisk, R. D., 34, 35, 64, 420
Littell, A. S., 424, 425, 426
Little, G. R., 524
Little, R. A., 167
Liu, W.-K., 411
Livett, B. G., 4, 5
Livingston, A., 350
Ljung, B., 9, 446
Lloyd, W., 19
Lo, T.-B., 415
Locker, A., 164
Lockett, M. F., 468
Lockwood, D. H., 59, 60, 61
Loerbroks, R., 133, 146
Löfgren, F., 395
Löfstedt, B. E., 181
Loh, A., 43
Lolley, R. N., 257
Lomax, P., 191, 192
Long, J., 399
Lonigro, A. J., 466
Loots, H., 163, 168
Lorens, S. A., 557
Lostroh, A. J., 54, 422
Lotspeich, W. D., 112, 118, 119, 120, 121
Louw, G. N., 62
Lovas, B., 262
Lovejoy, F. W., Jr., 132
Løvtrup-Rein, H., 245
Lower, R. R., 579
Lowitz, H. D., 90, 94
Löyning, E., 466
Lózsa, A., 189
Lu, G. D., 71, 72
Lubowitz, H., 101
Lubrich, W., 71
Ludens, J. H., 103
Ludewig, R. M., 460
Ludolph, H.-J., 170, 171
Luduena, F. B., 448
Luginbuhl, R. E., 156
Luick, J. R., 190
Lullmann, H., 524
Lum, B. K. B., 3, 7
Lundberg, A., 339, 360, 362, 368, 369, 370, 375
Lundegren, H. M., 181
Lundgren, O., 451, 458, 464
Lundholm, L., 2, 12, 15, 19
Lund-Larsen, K., 166
Lundvall, J., 452
Lusena, C. V., 184, 190
Lusk, W. D., 312
Luttge, W. G., 35, 43, 44
Lutz, B., 399
Lutz, B. R., 588, 596
Lutz, J., 459
Lux, H. D., 345, 508
Lydon, R. J., 7
Lyman, C. P., 181, 182
Lyman, R. L., 69
Lynch, G. S., 555, 557, 558
Lyon, M., 558
Lyon, M. L., 120

M

MacDonnell, M. F., 548
MacDowell, M. C., 84, 89, 91, 106, 108
Mace, J. W., 414
MacFarlane, M. D., 466
Macfie, J. A., 406
Machinton, S., 542
Machovich, M., 68
MacIntosh, J. R., 102
MacIntyre, B. A., 156

MacIntyre, E., 314
MacKnight, A. D. C., 108, 109
MacLeod, R. M., 37, 396, 415, 422
MacMillan, K. L., 68
MacMillan, W. H., 5
MacMillen, R. E., 161, 162
MacNichol, E. F., Jr., 223, 268
MacPherson, R. K., 180
Madden, J. J., 460
Maekawa, K., 371
Maetz, J., 585, 587, 588
Maffei, L., 266
Mager, M., 183
Magladery, J. W., 4
Magnusson, L. I., 181
Magwood, S. G. A., 164, 165, 179, 190, 191
Mahaffee, D., 315, 324
Maher, J. T., 180
Mahesh, V. B., 422
Mahieu, P., 102
Mainwaring, W. I. P., 43, 44, 47, 69
Mainwood, G. W., 524
Major, D., 244, 262
Makara, G. B., 400
Makman, R. S., 318
Maksimov, V. V., 261
Maksimova, E. M., 261, 262
Malik, K. U., 5, 463
Malis, L. I., 344
Mallart, A., 351
Malmfors, T., 4
Malnic, G., 106, 107, 108
Maloney, J. E., 147
Malven, P. V., 422
Malvin, R. L., 99, 115, 116, 117, 119
Malyusz, J., 585, 587
Mandel, L. R., 316
Mandel, P., 184
Mangan, F. R., 43, 47
Manganiello, V., 325
Mangold, H. K., 71
Mangos, J. A., 86, 92
Mann, L., 64
Manwell, C., 591
Manyai, S., 68
Manzoni, T., 346
Maran, J. W., 393-444
March, H. W., 579
Marchiafava, P. L., 226, 338, 339, 347, 359, 360, 372
Marcus, R., 314
Marcus, S. L., 427
Margules, D. L., 549, 550, 551, 553, 557
Mark, A. L., 448, 465
Markham, S. M., 427
Marks, F., 41
Marks, W. B., 224, 258, 268
Marley, E., 192
Marquis, N. R., 327
Marsala, J., 372
Marsh, J. M., 422
Marsh, J. T., 297
Marshall, J., 245
Marshall, J. M., 9, 14, 15, 16
Marshall, N. B., 316
Marshall, R. A., 98, 100
Martel, R. R., 19
Martin, A. W., 570, 578, 587
Martin, C. J., 140
Martin, D. W., 107
Martin, J. B., 410
Martinez, F. J., 103, 104
Martinez-Maldonado, M., 101, 103
Martini, L., 393, 402, 422
Martino, J. A., 95, 101, 102
Martinson, J., 458
Marvin, D. E., 592
Marx, C., 592
Mascher, D., 481, 482, 488, 489, 491, 496, 497, 499, 506, 510, 511, 512
Masica, D. N., 52, 54, 64
Mason, D. T., 457
Mason, J. W., 318
Masoro, E. J., 183, 185, 191
Massa, R., 422
Massion, J., 339, 346, 371
Masterton, R. B., 305, 306
Masurovsky, E. B., 250
Matell, G., 132
Matos, M., 99, 100
Matschinsky, F. M., 287, 288, 290
Matsubara, I., 516
Matsuda, K., 410, 489, 516
Matsui, T., 395
Matsumiya, Y., 298
Matsushita, I., 46
Matsuzaki, F., 414
Matter, A., 528
Matterson, L. D., 156
Matthews, E. K., 3
Matthews, J., 455
Matthews, P. B. C., 365, 379, 381
Matthews, R. G., 204
Maturana, H. R., 266
Maude, D. L., 106, 107, 108, 109
Maurer, H. R., 32, 43, 65
Maurer, R. A., 34, 420
Mauro, A., 219, 250
Mauskopf, J. M., 449, 450
Mauvais-Jarvis, P., 44, 52, 53
Mawhinney, M. G., 43
Maxwell, R. A., 445
May, D. G., 102
Mayer, H. E., 446, 457, 458
Mayer, J., 533, 536, 556, 558
Mayerle, J. A., 456
Mayhew, W. W., 159
McAllister, R. E., 485, 516
McAuliff, J. P., 448
McAuliffe, D. R., 285
McBurney, L. J., 186
McCallum, T. P., 39
McCann, S. M., 393, 398, 404, 411, 412, 413, 416, 419, 420, 422, 425, 552
McCarthy, B. J., 65
McClintock, J. A., 427
McCracken, J. A., 422
McCrea, P., 96
McCulloch, W. S., 266
McDonald, K. M., 98, 99, 100
McDonald, P. G., 422
McDonald, S. J., 100
McDowell, M. E., 132
McEwen, B. S., 245, 406, 207
McFarland, L. Z., 162
McGarry, E. E., 411
McGeer, E. G., 192
McGeer, P. L., 192
McGiff, J. C., 466
McGuigan, J. A. S., 516, 518, 519
McGuire, J. L., 34, 35, 420
McGuire, W. L., 48, 64, 66, 67, 68
McHardy, G. J. R., 132, 133
Mchedlishvili, G. I., 469
McIlwain, H., 328
McIlwain, J. T., 263
McIntyre, A. K., 348
McIsaac, R. J., 7
McKennee, C. T., 415, 422
McKerns, K. W., 64
McLean, J. R., 4, 8
McMahon, B. R., 576, 588, 592, 594, 597
McMillan, B., 315
McMurtry, J. G., 371
McNay, J. L., 463, 466
McNeil, J. S., 98
McNeill, J. H., 463
McRae, J., 146
Mead, J. F., 245
Means, L. W., 548
Medici, P. T., 62
Mehlman, M. A., 183, 184, 191
Meineke, H. A., 62

Meinertz, T., 517
Meites, J., 393, 415, 416, 417, 422, 427
Meites, M. S., 417, 422
Mejsnar, J., 171, 172, 173, 175, 176
Melicow, M. M., 311, 313, 318
Mellander, S., 450, 451, 452, 461, 462
Mellemgaard, K., 145
Mello, N. K., 223
Melson, G. L., 311, 314, 320, 321
Melzack, R., 538
Menahan, L. A., 316, 317
Mendel, D., 462
Mendelsohn, M., 287, 288
Mendelson, J., 544, 548
Menon, T., 17
Mera, B. B., 538
Mercier-Bodard, C., 40
Merimee, T. J., 414
Merrillees, N. C. R., 4, 6
Merton, P. A., 349, 358, 365, 381
Mess, B., 35
Metcalfe, J., 573
Metz, B., 180
Meulders, M., 346
Meyer, D. B., 222
Meyer, D. R., 223
Meyer, S. E., 59
Meythaler, B., 58
Mialhe, C., 399
Mialhe-Voloss, C., 397
Mical, R. S., 397, 422
Michael, C. R., 224, 267, 268, 269
Michaelis, L. L., 99
Middleton, P. A., 66
Midgley, A. R., Jr., 397, 411, 424, 426, 427
Migeon, C. J., 44, 47, 424
Mihailovic, L. J., 245
Mihály, K., 400
Mikhail, G., 424, 425, 426, 427
Milgram, N. W., 547, 548, 556, 557
Milgrom, E., 40, 49
Milic-Emili, G., 576
Millar, P. G., 205, 206, 207
Millar, R. A., 469
Millecchia, R., 219, 250
Millen, J. E., 580, 588, 589, 592, 593
Miller, B. G., 65
Miller, J. D., 281-310
Miller, J. J., 541, 558
Miller, J. W., 2, 15
Miller, K. J., 396
Miller, L. K., 166, 167
Miller, M. C. III, 400
Miller, M. D., 9
Miller, N. E., 547, 549
Miller, R. F., 243, 271
Milligan, J. V., 396
Mills, I. H., 103
Mills, T. M., 70
Milmore, J. E., 422
Milsum, J. H., 282, 283, 292, 294
Minaguchi, H., 416
Minard, D., 156
Mink, W. D., 558
Mintz, D. H., 320, 321
Mirand, E. A., 62
Misanin, J. R., 544
Mishell, D. R., 424
Mishkin, M., 555
Mishkinsky, J., 415, 417
Missotten, L., 259, 262
Mitchell, D. E., 229, 230
Mittler, J. C., 409, 411
Mitznegg, P., 58
Miura, S., 65
Miya, T. S., 450
Miyake, T., 422, 425, 427
Miyamoto, E., 59
Miyamoto, J., 340, 347, 350, 356, 372
Miyamoto, M., 48
Miyata, J., 424, 425
Mobbs, B. G., 34, 36, 37
Moerman, E. J., 5
Mogenson, G. J., 541, 543, 544, 547, 554, 558
Mohla, S., 65, 68
Mohme-Lundholm, E., 2, 12, 15, 19, 327, 328
Molino, G., 405
Molitch, M., 413
Moll, W., 573
Molnar, C. E., 283, 291, 293
Money, J., 52, 54, 64
Monroe, S. E., 427
Montgomery, R. B., 549, 555
Mook, D. G., 533, 535, 541, 542
Mookherjii, P. S., 592
Moore, B. W., 245
Moore, J. W., 216
Moore, M. M., 314, 315
Moore, P. F., 316
Moore, R. E., 172
Moore, W. J., 216
Moorhead, D., 452
Morad, M., 489, 497, 518, 519, 520, 521, 525, 526
Moran, N. C., 3, 16, 19
Moran, W. C., 448
Morel, F., 83
Morest, D. K., 295
Morfin, R. F., 45
Morgan, M., 570, 571
Morgan, T., 88, 89, 92, 93, 97, 105
Morgane, P. J., 533, 555
Morimoto, T., 181
Moriya, K., 185, 187
Morningstar, J. F., Jr., 185
Morris, R. W., 592
Morrison, A. R., 372
Morrison, G. R., 187
Morrison, J. F., 179, 180, 181
Morrison, S. D., 538
Morse, R. W., 340, 341, 342, 345, 359, 360, 371
Morton, I. K. M., 10, 11, 12
Morton, M. J., 582
Moruzzi, G., 60, 339
Moruzzi, M. S., 60
Mosebach, K.-O., 43
Mosley, J. G., 455, 457
Motais, R., 588
Mott, F. W., 375
Mott, J. C., 577, 588
Motta, M., 402, 422
Mouilliac-Baudevin, J., 368
Moulton, B. C., 60
Mount, L. E., 163, 182
Mountcastle, V. B., 231, 338, 344, 348, 349, 370
Moushegian, G., 295, 301
Mowat, A. P., 69
Mueller, G. C., 40, 50, 67
Muhs-Clement, K., 346, 350, 370, 372
Muir, B. S., 570, 571, 575, 596
Muir, D. C. F., 145
Mulder, A. H., 398, 399
Muldoon, T. G., 40
Müller, E. E., 412, 413
Müller-Oerlinghausen, B., 316
Munro, A. F., 10
Munro, A. H., 179, 180
Munro, D. W., 184
Munshi, J. S. D., 571, 572
Munske, K., 314, 315, 316
Muntz, W. R. A., 221, 258
Munz, F. W., 592
Murad, F., 18, 311, 322, 325, 327, 328
Murakami, M., 214, 216, 257, 258, 263, 271, 272
Murakami, N., 156
Murakami, Y., 295
Murdaugh, H. V., 105, 569, 570, 580, 588, 589, 592, 593
Murdoch, R. N., 68
Murphy, G. P., 62
Murphy, J. T., 556
Murray, M., 249

Murray, M. B., 183, 184
Musacchia, X. J., 156
Mutt, V., 464
Myers, R. D., 191, 549, 552
Myhrberg, H., 582, 583

N

Nacimiento, A. C., 345
Nadler, A. C., 411
Naets, J. P., 62
Naftchi, N. E., 454
Naftolin, F., 417, 424, 425
Nagasaka, T., 163, 175, 176
Nagasawa, H., 416, 422
Nagasawa, J., 4, 9
Nagel, R., 358, 359
Nagel, W., 120
Nahas, G. G., 58
Naidoo, S. S., 68
Naimark, A., 132
Naimzada, M. K., 412
Nair, K. G., 317
Nair, R. M. G., 408
Naka, K. I., 217, 224, 260, 261, 270
Nakai, Y., 288
Nakajima, A., 13
Nakamura, I., 571
Nakamura, R. M., 424
Nakamura, T., 149
Nakane, P. K., 395
Nakanishi, H., 4, 527
Nakano, T., 580, 585
Nakao, K., 410
Nakatsugawa, T., 164
Nakayama, I., 396
Nalbandov, A. V., 427
Nallar, R., 422, 425
Naman, R. K., 181
Nance, S. L., 169
Nandi, J., 582
Narahashi, T., 216
Narbeth, J., 549
Nash, H. A., 203, 204
Nasr El Din Ahmed, 594
Nauta, W. J. H., 393, 555, 556
Naves, F., 376
Nawar, G., 577
Nayak, R., 411
Nayler, W. G., 19
Neal, G. E., 43, 44, 47
Necheles, T. F., 62
Nedergaard, O. A., 446
Needham, J., 71, 72
Negishi, K., 260
Negus, V. E., 572
Neher, E., 508
Neill, J. D., 424, 425, 426
Neill, W. T., 571
Nelson, N. C., 414
Neri, L. L., 327
Neubeiser, R. E., 189
Neumann, F., 64
Newman, E. B., 284
Newman, R. W., 163, 183
Newsom, A. E., 181
Newstead, J. D., 571, 572, 573
Ney, R. L., 315, 324
Nicholls, J. G., 241, 243, 244, 245, 247, 248, 249, 252, 253, 271
Nichols, C. W., 270
Nichols, C. W., Jr., 415, 425
Nicholson, W. E., 327
Nickerson, P. A., 396
Nicolaidis, S., 541
Nicolette, J. A., 50, 67
Nicoll, C. S., 415, 416, 422, 425
Nieder, I., 283, 285
Nieder, P., 283, 285
Niedergerke, R., 516, 517, 523, 524
Niedermayer, W., 470
Nielsen, B., 156
Nielsen, M., 132, 133, 146
Niemi, M., 68
Niijima, A., 538
Nikara, T., 227, 228, 229
Nikkari, T., 71
Nikki, P., 192, 193
Nikolaishvili, L. S., 469
Nilsson, N. J., 469
Nir, I., 417
Nishida, M., 67
Nishigori, H., 66
Nisula, B. C., 164, 165, 179, 191
Niswender, G. D., 427
Nizet, A., 102
Noack, V. I., 68
Noble, D., 482, 484, 485, 486, 488, 498, 516
Noble, S. J., 482, 483, 488, 498
Nonner, W., 501
Norbäck, B., 469
Norberg, K.-A., 4
Northcutt, R. C., 44, 53, 319, 320, 321
Northmore, D. P. M., 258
Norton, A. L., 220, 260, 263, 269
Norton, W. T., 245
Norwell, J. E., 447, 466
Nosaki, H., 215, 216, 252, 257, 258, 271
Noteboom, W. D., 37, 39
Notides, A., 31, 32, 38, 39, 68
Nott, M. W., 2
Novak, L., 163, 173, 175
Novin, D., 357
Novotny, J., 447, 449, 450
Nowell, N. W., 188
Numata, M., 31, 32, 37, 38, 39, 40, 41, 42
Nyberg-Hansen, R., 372
Nyquist, J. K., 340, 341, 342, 345, 358, 387

O

Oakey, R. E., 40
Oatley, K., 544
O'Brien, C. P., 534
Ochi, R., 482, 489, 491, 496, 506, 510, 514
Ochwadt, B., 90, 94
O'Dea, R. F., 312, 316, 317
Odell, W. D., 422, 424, 425, 426
Oelert, H., 120
Oerther, F., 103
Oesterreich, R. E., 306
Oets, J., 578
Ofner, P., 43, 44, 45, 46, 51
Ogata, K., 156
Ogden, E., 596
Ogden, T. E., 273
Ogle, K. N., 225
O'Grady, J. E., 65
Ohta, R., 398
Ohtsuka, Y., 396
Ojeda, S. R., 422
Oka, T., 66
Okada, H., 595
O'Keefe, G., 318
Okubo, T., 149, 151
Olds, J., 544, 558, 559
Olds, M. E., 553
Oliver, I. T., 325
Oliver, J., 84, 89, 90, 91, 106, 108
Olsen, O., 180
Olsson, K., 98
Olsson, Y., 247, 251
Olynyk, G. P., 172, 173, 175
O'Malley, B. W., 48, 58, 64, 66, 67, 68
Ono, T., 538, 551, 556
Oomura, Y., 538, 551, 556
Ooyama, H., 538, 551, 556
Oratz, M., 191
Orkand, R. K., 243, 247, 252, 271, 516, 523, 524
Orloff, J., 83-130; 87, 89, 92, 93, 94, 106, 109, 110, 111, 112, 113, 116, 118, 119, 325
Orlov, R. S., 4
Orlovskii, G. N., 365, 366, 368, 382
Orr, A. H., 424
Orr, J. C., 56, 57
Orth, D. N., 407

Ortiz, E., 71
Orzalesi, N., 213
Osa, T., 7
Osaki, S., 322
Osborne, L. W., 461
Oscarsson, O., 339, 350, 351, 352, 353, 354, 381
Osher, J. V., 446
Oshima, T., 358, 373
Ostlund, E., 581, 582, 584
Ostrowski, M. A., 270
Ostroy, S. E., 257
Otis, L. S., 584
O'Toole, A. G., 312, 313, 318
Otorii, T., 581
Overbeck, H. W., 452
Overweg, N. A., 58
Owen, W. H., 65
Øye, I., 328
Oyster, C. W., 269
Ozaki, S., 527

P

Pace, N., 184
Pack, B. A., 33
Packer, B. S., 592, 593
Paes de Carvalho, A., 516
Paganelli, C. V., 144
Pagé, E., 169, 170, 172
Page, S., 517
Pagel, H. D., 86, 92
Pagliara, A. S., 114, 117, 325
Paillard, J., 339, 358, 375, 381
Pak, W. L., 208, 212
Palade, G. E., 246
Palay, S. L., 244, 597
Palka, Y., 400
Palkovits, M., 400
Palmer, E. C., 314, 315
Palmer, R. H., 62
Palmiter, R. D., 66, 67
Palokangas, R., 158, 159, 160, 175
Pandit, H., 102
Pandya, D. N., 345
Pankov, Y. A., 415
Panksepp, J., 544
Paparella, M. M., 287
Pappano, A. J., 526, 527
Parisi, M., 328
Park, C. R., 311, 319
Parker, C. W., 312, 313
Parker, D. C., 414
Parker, M. L., 414
Parlow, A. F., 424, 426
Parmelee, M. L., 102
Parra, A., 415
Parsons, I. C., 47
Parsons, J. A., 415, 422, 425
Parthe, V., 259
Partridge, L. D., 365, 376, 377
Pasquina, A., 40
Pastan, I., 311, 313, 323, 325
Pasteels, J. L., 415, 422
Pasztor, V. M., 575
Patlak, C. S., 110
Paton, W. D. M., 1, 5, 7, 16
Patterson, J. L., 451, 454
Pattison, M. L., 68
Patton, H. D., 339, 340, 341
Patton, J. F., 184
Patuschnik, M., 269
Pauk, G. L., 321
Paul, M. I., 321
Pauling, L., 204
Pautler, E. L., 214, 257, 258, 261, 271, 272
Pawlson, G., 320, 321
Payne, J. P., 1, 16
Peacock, A. C., 66
Peake, G. T., 409, 412
Peake, W. T., 281, 290, 294
Pearce, J. W., 103
Pearlman, A. L., 223, 224, 268
Pearlman, M. R. J., 37
Pearlman, W. H., 37
Pearse, A. G. E., 4
Pecile, A., 412, 413
Pedersen, J. I., 170
Pegg, A. E., 59, 60, 70
Peiper, U., 459
Pek, S., 397
Pellegrino, C., 55, 70
Pellegrino de Iraldi, A., 270
Penaloza-Rojas, J. H., 538
Pender, J. W., 470
Peng, M.-T., 412
Penn, R. D., 214, 215, 216, 217, 258, 271
Penner, P. E., 188
Penney, D. P., 406
Pennycuik, P. R., 177
Peper, K., 481, 482, 484, 486, 487, 488, 489, 491, 496, 497, 499, 506, 510, 511, 512
Perera, T. B., 547
Perkins, E. S., 257
Perkins, J. P., 19, 314, 315, 322
Perkins, M. E., 3
Perl, E. R., 348
Perlman, H. B., 288
Perlman, R., 311, 323
Perrin, L. E., 39
Perrott-Yee, S., 317
Persson, E., 107, 110
Persson, H., 582, 583
Perwein, J., 270
Petajan, J. H., 167, 183, 184
Petersen, J. A., 571, 579, 580, 593, 594, 595, 597, 598
Peterson, M. J., 316
Peterson, N. J., 223
Peterson, R. E., 424, 425, 426
Petit, J. M., 576
Petrovic, V. M., 164, 165, 179, 191
Pettigrew, J. D., 227, 228, 229
Pfaff, D. W., 534, 536
Pfaffmann, C., 542, 558
Pfeiffer, R. R., 283, 291, 293, 294
Pharriss, B. B., 422, 427
Pheteplace, C., 424, 425
Phillips, A. G., 544, 548
Phillips, C. G., 339, 350, 352, 354, 357, 358, 359, 360, 365, 366, 367, 368, 375, 379, 381, 384, 385, 386
Phillips, M. I., 558
Phoenix, C. H., 43, 64
Pi, W.-P., 412
Pickering, S. G., 216
Pierrepoint, C. G., 71
Piiper, J., 131-54; 133, 146, 573, 576, 580, 588, 589, 590, 591, 592, 593
Piliero, S. J., 62
Pilkington, L. A., 120
Pincus, G., 14
Pitt, B., 448
Pitts, R. F., 111, 118, 119, 120, 121
Pitts, W. H., 266
Piva, F., 402
Platner, W. S., 184, 185, 186, 189
Plehn, M., 573
Pleschka, K., 592
Plopinger, L., 406, 407
Plum, F., 533
Pöch, G., 19
Pochi, P. E., 71
Poduslo, S. E., 245
Poggio, G. F., 344
Pohl, H., 163, 168, 173, 175
Pohl, S. L., 314
Poincelot, R. P., 206, 207
Polimeni, P. I., 516
Pöll, W., 470
Pollard, A. A., 457
Pollard, C. J., 313
Pollen, D. A., 242, 248, 270
Pollera, M., 55
Pollow, K., 33
Pollow-Hanisch, B., 33
Polson, J. B., 312
Pomeranz, B. H., 99

Pompeiano, O., 372
Pool, G. L., 207
Pooley, A. S., 43
Pope, H., 133, 135, 136, 138
Porter, J. C., 393, 397, 398, 422, 427
Porter, R., 358, 367, 384
Portet, R., 176, 178, 187
Potts, J. T., 311, 320, 321
Powell, T. P. S., 226, 345, 352, 370
Power, G. G., 146
Powers, E. B., 597
Powers, S. R., Jr., 458
Powley, T. L., 538, 539, 540, 556
Pragnell, V., 258
Prakash, M. O., 176
Prasad, M. R. N., 65, 68
Pražma, J., 287, 288, 289
Precht, H., 592
Presl, J., 35
Preston, J. B., 360, 363, 364, 368
Preuss, H. G., 113, 114, 115, 121
Pribram, K. H., 344
Price, D., 49, 59, 69, 71
Price, T. D., 311, 313, 318
Price, W. E., 462
Price, W. M., 163, 175
Pricer, W., 313
Prince, R. P., 156
Prindle, K. H., 327
Pritchard, A. W., 593
Pritchard, R., 227, 228
Prokovsky, B. V., 68
Prosser, C. L., 592
Proverbio, F., 108, 109
Prusiner, S. B., 170
Psotka, J., 226
Psychoyos, M. A., 34
Puca, G. A., 36, 38, 39, 42, 43
Pun, C. W., 164, 165
Purcell, A. T., 549
Purkerson, M., 101
Purpura, D. P., 339, 345, 371
Purves, M. J., 469

Q

Quartermain, D., 541, 551
Quijada, M., 422, 425

R

Rabi, T., 177, 178, 189
Rabin, B. M., 534
Rabinowitz, D., 414
Radawski, D., 453
Radford, H. M., 422, 427
Radhakrishnamurthy, B., 68
Radnot, M., 262
Radomski, M. W., 183, 184, 186
Rafael, J., 170, 171
Rahn, H., 133, 569, 570, 589, 590, 591, 592, 593, 594, 595, 597
Rai, U. S., 62
Rall, D. P., 247
Rall, T. W., 17, 313, 322, 327, 328
Rall, W., 488
Ralph, R., 592
Ramasarma, T., 183
Ramirez, V. D., 416, 419, 422
Ramos, G., 99, 100
Ramwell, P. W., 429
Rand, M. J., 5
Rand, R. P., 167
Randall, D. J., 569, 576, 577, 578, 579, 580, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 597, 598
Randall, W., 558
Rankin, J., 424, 425, 426
Rao, C. R., 38, 39, 40, 41
Rao, S. S., 68
Rapela, C. E., 470
Raper, A. J., 454
Rapoport, A., 430
Rasmussen, G. L., 301
Rasmussen, H., 19, 325
Raspe, G., 72
Ratliff, F., 266
Ratner, A., 415
Rauch, S., 289
Rautenberg, W., 156, 157, 158, 159
Rauwerda, P. E., 141
Raviola, E., 262
Raviola, G., 262
Rawls, W., 404
Rawson, K. S., 181
Ray, D. E., 163, 179
Raynaud, P., 580, 594
Raynaud-Jammet, C., 50
Raynauld, J. P., 267
Read, J., 146, 573
Read, J. B., 7
Rebar, R. W., 427
Rector, F. C., Jr., 86, 87, 91, 92, 93, 103, 108, 111, 112, 113, 115, 116, 118
Reddi, A. H., 31-82; 43, 55, 59, 64
Redding, T. W., 408, 409, 411
Redfield, A. C., 591
Redgate, E. S., 401
Reed, N., 185
Reese, T. S., 246, 247, 251, 260
Reeves, A. G., 533
Regan, D., 231
Reich, T., 454
Reichert, L. E., Jr., 427
Reichlin, S., 406, 410, 411, 414
Reimann, E. M., 322, 323
Reis, D. J., 452
Reite, O. B., 579, 582, 585, 586
Reiter, L., 554
Reivich, M., 469
Remmers, J. E., 570
Renaud, L. P., 556
Renfrew, J. W., 548, 552
Renkin, E. M., 448, 449, 450
Resko, J. A., 43, 64
Rettura, J., 43
Reuter, H., 481, 482, 484, 486, 487, 488, 489, 491, 492, 493, 495, 496, 497, 498, 499, 500, 501, 504, 506, 507, 509, 510, 511, 512, 513, 517, 518, 519, 522
Reuter, T., 208, 219, 264
Revesz, T., 400
Reynolds, R. W., 534, 544
Rhode, W. S., 303
Rhodes, J., 357
Rhodin, J. A., 446, 451, 452, 571
Rice, B. F., 422
Richards, B. D., 584
Richardson, D. R., 461, 462
Richardson, D. W., 454
Richardson, T. M., 212
Ricklefs, R. E., 161
Ridgway, E. B., 518
Riekkinen, P. J., 68
Riess, J. A., 572
Rifkind, A. B., 61, 62
Rigaudière, N., 177
Riley, W. D., 19, 314
Ringold, H. J., 39, 40
Rinkens, D., 43
Rinvik, E., 370, 371
Ripoche, P., 328
Ripplinger, J., 582, 583
Ripps, H., 257, 264, 265, 267
Rising, J. D., 161, 162, 177
Rispal-Padel, L., 371
Ritter, W., 297, 298
Ritzen, M., 4, 581, 582
Rivest, P., 170, 172
Rizzolatti, G., 230
Robel, P., 43, 47, 51, 54
Roberts, E., 269
Roberts, J. C., 155-202; 163, 168, 169, 172, 174

Roberts, J. D., 574
Roberts, J. L., 592
Roberts, T. D. M., 574
Roberts, W. W., 548
Robertshaw, D., 182
Robertson, O. H., 587
Robin, E. D., 569, 570, 580, 588, 589, 592, 593
Robinson, B. W., 555
Robinson, D., 68, 163
Robinson, S., 180, 181
Robison, A., 328
Robison, G. A., 311-36; 2, 16, 17, 18, 19, 57, 311, 314, 315, 319, 327, 448, 449
Robson, A. M., 101
Robson, J. G., 227
Roche, J. F., 427
Rochefort, H., 38
Rodbard, S., 452
Rodbell, M., 314, 327, 328
Roddie, I. C., 4
Rodenroth, S., 527
Rodicio, J., 87, 91, 92, 93
Rodieck, R. W., 203-40; 215, 218, 219, 265, 268
Rodinov, I. M., 583
Rodriguez, E. M., 394
Rodriquez-Peralta, L. A., 251
Rodriquez-Zendejas, A. M., 538
Roeder, R. G., 67
Rogers, D. C., 4
Rogers, N. L., 316
Röhling, S., 35
Rolewicz, T. F., 456
Root, A. W., 411, 537
Roots, B. I., 244
Rose, D. P., 69
Rose, J. E., 291, 292, 293
Rose, S. P. R., 244
Rosell, S., 456
Rosén, I., 350, 351, 352, 353, 354
Rosen, O. M., 313, 314, 316, 317
Rosen, S. M., 313, 314, 317
Rosenberg, S. A., 204
Rosenblum, M., 386, 387
Rosenfeld, M. G., 58
Rosenquist, A. R., 548, 554
Rosenthal, A., 99
Rosenthal, J., 461
Rosner, B. S., 542
Rosner, W., 40
Ross, G., 445-78; 448, 459, 460, 461, 462, 463, 464
Ross, G. T., 424, 425, 426, 427
Ross, H. F., 283, 285
Ross, J., 328
Ross, J. K., 579
Ross, M. D., 295
Rossi, G., 295
Rossi-Bernardi, L., 134
Rossman, L. G., 414
Rost, B., 527
Rosvold, H. E., 556
Roth, J., 313, 414
Roth, J. A., 468
Roth, J. G., 401
Roth, R. H., 193
Roth, S. R., 542
Rothballer, A. B., 98
Rothchild, I., 422, 427
Rothschild, M. C., 191
Rothstein, A., 10
Rotmann, M., 523
Roubicek, C. B., 163, 179
Roughton, F. J. W., 134
Rougier, O., 482, 483, 488, 489, 498, 499, 500, 501, 502, 503, 504, 506, 511, 513, 514, 515, 519
Rouse, D., 101
Rouseau, J. P., 598
Routtenberg, A., 552, 553, 558
Rowlands, D. J., 455
Roxe, D. M., 117
Roy, S. K., 43
Rozengurt, E., 68
Rozin, P., 538, 541, 542
Rubinstein, E. H., 464, 465
Ruch, T. C., 357
Rüdel, J., 482, 484, 498, 499, 504, 505, 510, 511, 512
Rudman, R. A., 68
Rudolph, S. A., 313
Rudomin, P., 340, 342, 343, 347, 360, 378
Ruf, K., 403
Rufo, R., 68
Rummel, J. A., 177
Rupert, A. L., 295, 301
Rush, R. A., 5
Rushton, W. A. H., 217, 218, 219, 224, 260, 261, 264, 265, 267
Ruska, H., 4
Russek, M., 538, 554
Russell, S. M., 393-444; 398, 404
Rutter, W. J., 64, 67
Ryan, L., 325
Ryan, R. J., 424, 426
Ryan, W. L., 325, 326

S

Sabatini, M. T., 245
Sabatini-Smith, S., 517
Sachs, M. B., 290, 292, 294, 295
Sachson, R. A., 61
Sack, G. H., Jr., 57
Saffran, M., 398, 399
Sagher, D., 67
Sagi, Y., 149
Said, S. I., 464
St. Cyr, G. J., 229
Saito, M., 422
Saito, S., 412
Sakakura, M., 398
Sakamoto, Y., 490
Sakata, H., 340, 344, 347, 348, 350, 354, 355, 356, 361, 371, 372, 387
Sakiz, E., 408
Sakmann, B., 257, 265, 266
Sakuma, M., 413, 415, 425
Salmoiraghi, G. C., 595, 596
Salomon, Y., 323
Salpeter, M. M., 251
Saltzmann, H. A., 133
Salzano, J. V., 133
Salzman, E. W., 327
Samoiloff, V., 179
Sandberg, A. A., 40
Sander, S., 36, 37
Sanderson, K. J., 226
Sands, S. D., 524
Sanes, J., 323
Sansone, G. L., 71
Santa, V., 578
Sar, M., 43, 416, 417, 422
Sarel, R., 56
Sargent, F. II, 181
Sasaki, T., 149, 156
Sasaki, Y., 271
Sassa, S., 61
Sassin, J. F., 414
Satchell, G. H., 575, 577, 578, 579, 582, 587, 588, 596
Sato, E., 527
Sato, G., 245
Sato, T., 398
Satta, S. O., 168
Sauer, G., 226
Saunders, J. C., 297
Saunders, J. F., 156
Saunders, R. L., 574, 575, 576, 592, 597
Savard, K., 422
Sawano, S., 411, 412
Sawyer, C. H., 416, 418, 419, 421, 422
Saxena, B. B., 424, 425, 426, 571
Schaeppi, U., 14
Schalch, D. S., 411
Schally, A. V., 397, 399, 400, 408, 409, 411, 412, 422
Scharrer, E., 597
Schaumann, W., 7
Scheibel, A. B., 245, 342

Scheibel, M. E., 342
Scheibner, H., 219
Scheich, H., 266
Scheid, P., 131-54
Schenk, E. A., 446, 447, 450, 464
Scheuer, J., 528
Schiff, B. B., 548
Schild, H. O., 3, 15
Schimke, R. T., 66, 67
Schindler, K., 289
Schlag, J., 371
Schlender, K. K., 322
Schlessinger, D., 323
Schmidt, E. M., 374, 377, 378, 380, 383
Schmidt, F. H., 316
Schmidt, H., 68
Schmidt, K. D., 415
Schmidt, M. J., 314, 315
Schmidt, R., 260, 273
Schmidt, R. F., 347
Schmidt, R. S., 289
Schmidt-Nielsen, B., 83
Schmidt-Nielsen, K., 161, 162, 177, 181, 571, 579, 580, 593, 594, 595, 597, 598
Schneibner, H., 264
Schneider, E. A., 289
Schneider, G., 53, 54
Schneider, H. P. G., 422
Schneiderman, L. J., 204
Schnermann, J., 84, 85, 87, 91, 92, 93, 94, 96
Schoenlein, K., 577
Schofield, B. M., 9
Scholander, P. F., 573, 584, 589, 592, 594
Scholz, H., 517, 526
Schoney, Z. G., 283, 284
Schorr, I., 315
Schramm, M., 323
Schreiber, S. S., 191
Schriefers, H., 35, 36, 46, 63
Schrier, R. W., 98, 99, 100
Schultz, G., 314, 315, 316
Schultz, R. B., 415
Schultze, D., 592
Schulz, H., 571
Schulz, V., 148
Schumann, D., 573, 576, 588
Schürmann, K., 469
Schwabe, U., 316
Schwark, W. S., 68
Schwartz, D., 323
Schwartz, L. S., 406, 407
Schwartz, M., 542
Schwartz, N. B., 417, 427, 430
Schwartz, S., 242, 243
Schwartzkopff, J., 301
Schwyn, R. C., 249
Sclafani, A., 535
Scott, J. B., 453, 468
Scott, J. W., 541, 558
Scullard, G. H., 113
Sealey, J. E., 102, 105
Sears, T. A., 372
Sebruyns, M., 571
Sechzer, J. A., 223
Sedvall, G., 451
Seely, J. F., 110
Segal, S. J., 37, 38, 67
Seifter, E., 43
Seigel, A. Q., 548
Seiki, K., 48
Seitz, N., 517
Seldin, D. W., 86, 87, 92, 103, 111, 113, 115, 116
Selkoe, D. J., 245
Sellman, J. C., 87, 91, 92, 93, 103
Semb, L. S., 458
Senft, G., 316
Sengupta, A. K., 176
Seraydarian, M., 527
Serbenyuk, Ts. V., 596
Serfaty, A., 580, 584, 594
Server, A. C., 547, 548
Seshadri, B., 50
Setekleiv, J., 9, 12
Severin, F. V., 365, 366, 368, 382
Seydoux, J., 171
Seyffarth, H., 385, 386
Shaffer, R. A., 450, 457
Shaffner, C. S., 36
Shalf, J., 44, 47
Shalhoub, R., 119, 120
Shanes, A. M., 12, 506
Shank, R. E., 187
Shanklin, M. D., 182
Shanks, R. G., 448
Sharbrough, F. W. III, 298
Sharma, K. N., 550
Sharma, S. K., 58, 326
Sharman, D. F., 163
Sharpe, L. G., 552
Shaw, J. E., 429
Shaw, T. I., 216
Sheehan, G., 69
Shehadeh, Z., 462
Shein, H. M., 245
Shelton, G., 569, 573, 574, 575, 576, 589, 595, 596, 597, 598
Shende, M. C., 360, 363
Shepherd, D. M., 582
Shepherd, J. T., 457
Sheridan, J. D., 366, 367
Sherrard, D. J., 116, 118
Sherrington, C. S., 375
Sherwood, N. M., 556
Sheth, A. R., 68
Shibata, J., 518, 519, 520, 521, 522
Shibata, S., 13, 14
Shichi, H., 205
Shida, K., 46, 67, 68
Shields, J. E., 205
Shields, J. L., 185, 186, 189
Shigematsu, Y., 263
Shih, Y., 34, 39
Shik, M. L., 365, 366, 368, 382
Shimada, H., 67
Shimazaki, J., 46, 55, 67, 68, 69
Shimazu, H., 339, 364, 371
Shimshak, G., 403
Shinko, T., 320
Shirahama, T., 68
Shirato, H., 166, 185, 187
Shizume, K., 410
Shmigidina, G. N., 304
Shoemaker, C. P., 458
Shoemaker, W. C., 461
Shofer, R. J., 345
Sholiton, L. J., 46
Shub, C., 576, 595, 597
Shulman, E., 542
Shulman, J., 316, 319, 326
Shumaker, H. K., 516
Shurland, L. M., 119
Shute, C. C. D., 4
Shyamala, G., 31, 32, 38, 39, 41, 43
Sichel, H. S., 179
Sickel, W., 216
Sidman, R. L., 62
Siegel, H. S., 156, 158, 161, 162
Siegel, I. M., 208
Siesjo, B. K., 470
Siess, E., 322
Siiteri, P. K., 45, 422, 427
Sikand, R., 139, 144, 151
Silfvenius, H., 349, 351, 352, 353, 354, 359
Sillman, A. J., 215, 258
Silman, H. I., 204
Silva, D. G., 447, 461
Simard, S., 461
Simmonds, M. A., 172, 192
Simon, E., 168
Simpson, C. W., 534
Simpson, D. P., 116, 118
Sindberg, R., 346
Singer, G., 549, 555
Singer, M., 251
Singer, W., 226
Singhal, R. L., 58, 59, 68
Singleton, G. T., 287
Sinha, A. K., 244
Siperstein, E. R., 396
Sirakov, L. M., 68
Sirett, N. E., 401, 406
Sisken, B., 269
Skelton, C. L., 311, 327

Skelton, F. R., 396
Skinner, J., 71
Skinner, N. S., Jr., 453, 455
Skreslet, S., 163
Skultety, F. M., 558
Slabochova, Z., 181
Slangen, J. L., 549
Slatopolsky, E. S., 101
Slaunwhite, W. R., Jr., 40
Slayman, C. L., 340, 342, 343, 347, 360, 378
Sleator, W. W., 524
Slebodzinski, A., 182
Slee, J., 163
Smelik, P. G., 403
Smellie, R. M. S., 65
Smit, H., 592
Smith, A. D., 5
Smith, A. L., 470
Smith, C., 295
Smith, C. A., 286, 291
Smith, C. G., 43
Smith, C. J., 534
Smith, D. E., 31, 32, 38, 39, 70, 552, 554
Smith, E. R., 420, 422
Smith, G. P., 411, 537
Smith, H. E., 346
Smith, H. W., 91, 577, 594
Smith, J. C., 580, 583
Smith, L. S., 579, 586
Smith, R. E., 155, 156, 160, 163, 168, 169, 170, 171, 172, 173, 174, 175, 183, 184, 185, 187, 189, 191, 456
Smith, S., 31, 32, 37, 38, 39, 40, 41, 42
Smith, S. W., 597
Smith, T. G., 250
Sneyd, J. G. T., 319
Snowdon, C. T., 541, 543
Snyder, F., 71
Snyder, S. H., 552
Sobel, B. E., 328
Sobral, D. T., 187
Soderling, T. R., 322
Sohmer, H., 289
Sokoloff, L., 469
Solandt, D. V., 588
Solandt, O. M., 588
Solomon, S. S., 325, 327
Somberg, E. W., 191
Somero, G. N., 167
Somlyo, A. P., 2, 445
Somlyo, A. V., 2, 445
Sommer, J. R., 481, 482, 483, 484, 486, 488, 493, 500, 502, 503, 523, 526
Sonenberg, M., 411
Song, C. S., 61, 62
Song, S. H., 136, 137
Sonnenberg, H., 103
Sonnenschein, R. R., 450, 464, 465
Sopori, M. L., 38
Sorensen, M. W., 169, 172
Sorenson, C. A., 540, 542
Sotelo, C., 244
Soto-Mora, L. M., 538
Soulairac, A., 549
Sousa-Pinto, A., 372
Spaan, G., 156
Spaich, P., 592
Spanner, R., 462
Sparks, D. L., 558
Sparks, H., 449
Sparks, H. V., 467
Spazziani, E., 70
Spector, A., 257
Spector, N. H., 539
Speden, R. N., 4, 8, 9, 13
Speichinger, J. P., 67
Spekreijse, H., 220, 231, 260, 263, 269
Spener, F., 71
Sperelakis, N., 481, 516, 526, 527, 528
Spies, H. G., 422
Spinage, C. A., 181, 182
Spinelli, D. N., 268
Spitzer, A., 94, 95
Spoendlin, H., 286, 295, 296
Sporn, E. M., 191
Sporrong, B., 8, 463
Sprague, J. M., 226
Spurway, H., 595
Spyropoulos, C. S., 287
Srinivasan, P. R., 66
Srivastava, P. L., 101
Stahlgren, L. H., 465
Stainsby, W. N., 453
Stam, A. C., 18
Stämpfli, R., 482, 483, 488, 489, 498, 499, 500, 501, 502, 503, 504, 513
Stanley, A. J., 53, 54
Stark, E., 400, 402
Stark, L., 375, 376
Stark, P., 554
Stark, R. D., 448, 459, 460, 462
Starkweather, R., 528
Starr, A., 296, 302
Stavraky, G. W., 541, 558
Stear, E. B., 393
Steckel, R. J., 463
Steedman, W. M., 4, 8, 13
Steen, I., 158
Steen, J. B., 158, 570, 571, 574, 593, 594, 595, 597
Stefanis, C., 358, 359
Steffens, A. B., 538, 539
Stegemann, J., 132
Steggles, A. W., 43
Stein, G., Jr., 158, 162
Stein, L., 552, 553, 554, 555, 557
Steinbaum, E. A., 547
Steinbeck, H., 64
Steinberg, M. L., 548
Steinberg, R. H., 223, 260, 261, 263, 267, 272, 273
Steiner, A. L., 112, 115, 117, 118, 312, 313, 409, 412
Steiner, F. A., 403
Steiner, S. H., 465
Steinhausen, M., 86, 96
Stell, W. K., 244, 259, 260, 261, 262
Stellar, E., 535
Stelter, W. J., 156
Stephenson, J. D., 192
Sterescu, N., 402
Steriade, M., 371
Sterman, M. B., 558
Stern, J. M., 43, 44, 47, 48
Stern, W. E., 533
Stetson, R. H., 375, 376, 377, 380, 385
Stevens, E. D., 577, 578, 579, 580, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593
Stevens, K. R., 422
Stevens, S. S., 284
Stevens, U. C., 424, 426
Stevenson, J. A. F., 167, 533, 534, 535, 540, 547, 554
Stewart, D. H., 363, 364
Stiles, W. S., 221
Stinson, J. M., 466
Stirling, J. L., 68
Stöckle, H., 107, 108
Stohr, P. E., 297, 298
Stone, A. L., 205
Stone, J., 226, 230, 262, 264
Stone, W. B., 161, 162
Stone, W. J., 120
Stonehouse, B., 157
Stoner, H. B., 167
Stoney, S. D., Jr., 337-92; 340, 343, 344, 345, 347, 350, 355, 356, 357, 361, 362, 368, 372, 386, 387
Storey, B. T., 205
Storey, R., 416
Storlien, L. H., 535
Stotler, W. A., 299, 301, 303
Straatsma, B. R., 257
Strahan, R., 575
Straschill, M., 270
Strauss, J. P., 71
Straw, J. A., 164, 165
Stretton, A. O. W., 242
Strickland, A., 53
Stromeyer, C. F. III, 226
Strominger, N. L., 306
Strott, C. A., 424, 425, 426
Strydom, N. B., 179, 180

Stuart, D., 163, 175
Stull, H. D., 188, 191
Stumpe, K. O., 90, 94
Stumpf, W. E., 33, 34, 38, 39, 41, 43, 67, 420
Sturkie, P. D., 158, 160, 162
Sturtevant, J. M., 313
Stussi, T., 592
Su, C., 4, 9, 13, 446
Subrahmanyam, K., 117
Suda, Y., 140
Sudak, F. N., 577, 578, 587
Suematsu, H., 410
Suga, N., 306
Sugahara, M., 189
Suki, W. N., 101
Sulg, I., 350, 351, 352, 353, 354
Sulman, F. G., 415, 417
Sumi, T., 290
Suntzeff, V., 245
Suskind, M., 132
Suter, E. R., 169
Sutherland, E. W., 311-36; 2, 16, 17, 18, 19, 57, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 327, 328, 448, 449
Suthers, M. B., 4, 9, 13
Sutija, V., 260
Sutin, J., 556
Sutter, M. C., 3, 13, 15
Sutterlin, A. M., 580
Suzuki, H., 226
Suzuki, N., 571
Suzuki, T., 4, 9, 31, 32, 37, 38, 39, 40, 41, 42
Svanvik, J., 464
Svedmyr, N., 2, 15, 19
Sveen, O., 371
Swain, M., 36
Swartzendruber, D. C., 71
Sweat, M. L., 32
Sweeney, E. A., 45, 46
Sweet, W., 245
Sweetland, K. F., 180, 181
Sweetman, R. H., 283, 284
Swerdloff, R. S., 422, 424, 425, 426
Swett, J. E., 351, 352
Syka, J., 304
Sykes, A. R., 163
Szalay, K. S., 402
Szego, C. M., 17, 57, 326
Szidon, J. P., 594, 595, 598
Szurszewski, J. H., 7

T

Tabakin, B. S., 132
Tagawa, H., 467
Takahashi, H., 149
Takahashi, K., 320
Takahashi, T., 287
Takashima, T., 149
Takeda, H., 4, 527
Takeuchi, J., 460
Talalay, P., 33, 56, 57
Talbot, M. S., 517
Talbot, W. H., 344, 348
Taleisnik, S., 419, 420, 422, 425
Talwalker, P. K., 415
Talwar, G. P., 37, 38, 58, 64, 326
Tamamoto, T., 551, 556
Tamashita, A., 48
Tanaka, Y., 288
Tanche, M., 168
Tanengol'ts, L. T., 341, 345, 387
Tani, H., 19
Tao, M., 315
Tasaki, I., 243, 282, 287, 291, 292, 293, 294
Tashjian, A. H., Jr., 412
Tata, J. R., 64, 67
Taub, E., 358, 375
Taxi, J., 4
Taxis, J. A., 454
Taylor, A. L., 320, 321
Taylor, A. N., 401
Taylor, C. R., 181, 182
Taylor, K. J., 282
Taylor, K. M., 552
Taylor, M. G., 587
Taylor, P. D., 36
Taylor, W., 569, 598
Taymor, M. L., 424, 425
Teal, J. M., 574
Teas, D. C., 293, 294
Tebecis, A. K., 579
Teitelbaum, P., 533, 534, 536, 537, 538, 539, 542
Telford, C. W., 376
Tenen, S. S., 547
Tenenhouse, A., 19
Teng, C.-S., 65
Tenney, J. B., 570, 571
Tenney, S. M., 570
Terasawa, E., 419, 421
Terenius, L., 34, 36, 37, 39
Terragno, N. A., 466
Terry, A., 101
Thach, W. T., 339, 358, 359, 370, 371, 373, 374, 375, 378, 380
Thaemert, J. C., 4
Thalmann, I., 288
Thalmann, R., 287, 288, 290
Therriault, D. G., 174, 183, 184, 185, 191, 316
Thews, G., 147, 148, 150, 151
Thieme, G., 4
Thoden, U., 381
Thoenen, H., 5
Thoenes, W., 86
Thomas, A., 52
Thomas, D. W., 533
Thomas, E. C., 290
Thomas, G. J., 584
Thomas, J. A., 43
Thomas, J. E., 464
Thomas, K., 424
Thomas, L. J., 316, 317
Thomas, S., 410
Thomas, S. F., 587
Thompson, G. E., 167, 172
Thompson, H. E., 430
Thompson, N., 587
Thompson, R. D., 542, 545, 547
Thompson, R. F., 346
Thompson, W. D., 345, 355, 361, 362, 374, 377, 378, 380, 383
Thompson, W. J., 316
Thomson, J. F., 169
Thoren, L., 37
Thun, K. J., 33
Thurau, K., 90, 91, 94, 465, 470
Ti, K. W., 164, 165
Tiitso, M., 582
Tille, J., 4, 522
Timms, A. R., 16, 17
Tinoce, R. M., 571
Tinoco, J., 69
Tippit, P. R., 397
Tirri, R., 192
Tjurau, K., 83
Tobia, A. J., 450
Tobian, L., 96
Todd, E. S., 595
Toft, D., 31, 32, 38, 39
Toida, N., 7
Tokizane, T., 339, 364
Tomita, T., 3, 4, 7, 10, 11, 14, 214, 215, 216, 217, 243, 252, 257, 258, 260, 265, 271, 272, 445, 446, 470
Tomkins, G. M., 68
Tomlinson, N., 580, 585
Tonndorf, J., 281, 283, 284, 285
Tonomura, Y., 528
Torack, R. M., 395
Torii, S., 217, 218
Torok, J., 446
Torp, A., 4
Tóth, I., 399
Toth, M., 68
Totty, C. W., 554
Tousignant, P., 163
Toussaint, C., 94, 95, 102
Toviola, P., 415
Towe, A. L., 340, 341, 342, 343, 345, 358, 359, 360, 371, 387
Tower, S. S., 338

Toyoda, J., 215, 216, 219, 252, 257, 258
Toyoda, Y., 371
Trachewsky, D., 67
Trachtenberg, M. C., 242, 248
Trahiotis, C., 296
Trapanis, I. L., 189
Trautner, M., 107
Trautwein, W., 482, 483, 484, 485, 486, 487, 489, 497, 518, 519, 520, 521
Travis, R. P., Jr., 558
Traylor, R. A., 539
Treble, D. H., 112, 115, 117, 118
Treherne, J. E., 248
Trevor, A. J., 244
Trifonov, Yu. A., 260, 265
Trifonow, J., 270
Triner, L., 58
Tritthart, H., 527
Trois, E. F., 571
Trost, C. H., 161, 162
Trowill, J. A., 544
Trujillo-Cenóz, O., 249
Trump, B. F., 102
Tseng, L. F., 7
Tsien, R. W., 482, 484, 486, 488, 498, 516
Tsuchitani, C., 301
Tsuji, S., 320
Tsukahara, N., 347, 358, 371, 373
Tsunoo, M., 288
Tsushima, T., 414
Tuckman, J., 454
Tune, B. M., 110
Turell, E. S., 180, 181
Turkington, R. W., 56
Turner, C. W., 164
Turner, J. W., Jr., 70
Turtle, J. R., 327
Tveter, K. J., 43, 44, 47
Twitchell, T. E., 385
Tyson, J. E., 414

U

Uchida, K., 422, 425
Uchiyama, H., 290
Uchizono, K., 300
Uden, R., 459, 461
Uemura, K., 360, 363
Ulfendahl, H. R., 107, 110
Ullrich, K. J., 107, 108
Umezawa, S. I., 575, 592
Ungvary, G., 460
Unhjem, O., 43, 44, 47
Uno, A., 422
Uno, M., 371, 373, 376, 381, 382, 384
Urquhart, J., 404, 406
Ursillo, R. C., 4, 9, 13
Ursin, H., 534, 556
Utiger, R. D., 409, 411, 412
Uvnäs, B., 447, 449

V

Vadas, M. A., 226
Vahouny, G. V., 528
Valadares, J. R. E., 68
Valavaara, M., 71
Vale, W., 408, 409
Valenstein, E. S., 534, 544, 546, 547, 548, 556
Valibo, A. B., 350, 365, 366, 368, 381
Van Beaumont, W., 181
Van Bogaert, P. P., 516
Van Citters, R. L., 465, 468, 579, 583, 587
van Dam, L., 573
Van Damme, O., 43
Vander, A. J., 467
Van der Vleuten, A. C., 288
Vande Wiele, R. L., 424, 425, 426, 427, 430
Vanegas, H., 548
van Graan, C. H., 179, 180
Van Heerden, P. D., 464
Vanhoutte, P. M., 457
Van Itallie, T. B., 461
Van Liew, H. D., 591
van Noort, J., 301
Vanov, S., 7
Van Wyk, J. J., 406
van Zwieten, P. A., 524
Varju, D., 216
Vasilenko, D. A., 360, 361
Vassalle, M., 516
Vassort, G., 482, 483, 488, 489, 498, 499, 500, 501, 502, 503, 504, 506, 511, 513, 514, 515, 516, 519
Vatner, S. F., 465
Vaughan, D. A., 188, 189, 191
Vaughan, H. G., 297, 298
Vaughan, L. N., 188, 191
Vaughan, M., 18, 311, 322, 325, 327, 328
Vaughan Williams, E. M., 16
Vaz Ferreira, A., 4
Vedel, J. P., 368
Vega, C., 538
Veghte, J. H., 157, 158
Vela, P., 424, 425, 426
Velasco, M. E., 419, 420, 422, 425
Vennerød, A. M., 14
Ventom, M. G., 100
Vereecke, J., 516, 517
Vereerstraeten, P., 94, 95, 102
Veress, A. T., 103, 164
Vergnes, M., 548
Verity, M. A., 445, 446
Vernikos, J., 402
Verriest, G., 585, 588
Versteeg, D. H. G., 398, 399
Verstraete, W., 288
Vertes, M., 35, 43
Vest, B., 556
Vida, J. A., 63
Vieira, F. L., 107, 108
Vigdahl, R. L., 327
Vigersky, R., 42
Vijayvargiya, R., 58, 59
Villablanca, J., 371
Villar-Palasi, C., 322
Villee, C. A., 34, 50, 56, 57, 64, 67, 69
Villegas, G., 245
Villegas, J., 241, 248
Villegas, L., 248
Villegas, R., 241, 245, 248
Villemaire, A., 176
Vincendon, G., 184
Vinnitskii, A. M., 584
Vinther, A., 145
Viveros, D. H., 448, 450
Vizi, E. S., 7
Vogel, H. R., 147, 148, 150, 151
Vogt, M., 9
Vogwill, M. T., 183, 184
Voigt, K. D., 68
Voitkevich, A. A., 394
Vokac, Z., 594
Volle, R. L., 192
Volpe, P., 244
von Baumgarten, R., 595, 596
von Békésy, G., 282, 283, 284, 286, 290, 291, 294, 307
von Berswordt-Wallrabe, R., 64
von Bismark, G., 281
Vonderhaar, B., 40
Voneida, T. J., 338
von Euler, C., 365
von Euler, U. S., 581, 582
von Ilberg, C., 289, 290
von Mecklenburg, C., 582, 583
von Mengden, H. J., 148
von Wahlert, G., 575
Voogt, J. L., 416, 417, 422
Voorheis, H. P., 185
Voorhoeve, P. E., 368, 369
Voronin, L. L., 341, 345, 387
Vosteen, K.-H., 289, 290
Vrana, A., 186
Vrbova, G., 451

W

Wade, G. N., 534, 541

Wagner, H. G., 220, 223, 260, 263, 269
Wagner, H. N., Jr., 464, 468
Wagner, P., 146
Wahl, M., 87, 91, 92, 470
Wahlstrom, B., 3, 13, 14
Wakabayashi, I., 411
Walaas, E., 312, 322
Walaas, O., 312, 322
Walberg, F., 371
Walckiers, R., 424
Wald, F., 246
Wald, G., 204, 207
Walker, A. M., 84, 89, 90, 91, 106, 108
Walker, C., 191
Walker, F. D., 243
Walker, J., 183
Walker, J. D., 44, 45, 53
Walker, W. F., 461
Wallace, A. L. C., 422
Wallentin, I., 462
Walls, G. L., 221, 222
Walsh, D. A., 19, 322, 323
Waltz, F. A., 182
Waltz, P., 427, 430
Wampler, R. S., 542
Wang, L. C.-H., 177
Wangensteen, S. L., 460
Ward, A. A., 357
Ward, A. A., Jr., 371
Ward, D. N., 409
Ward, J. E., 362
Ward, J. W., 383, 384, 554
Ward, P. H., 286, 290
Wardell, W. M., 243
Warenbourg, M., 420
Warhaft, N., 168, 175
Warr, W. B., 299, 301, 302
Warren, J. C., 40, 50
Warren, R. L., 287
Washington, A., 316, 319
Wassermann, K., 132
Watanabe, S., 419, 420
Watanabe, T., 290, 301
Waterson, J. G., 13
Watson, B., 324
Watson, J. T., 419, 420
Watson, W. E., 249
Watt, A. J., 7
Watt, D., 375
Watters, K., 573
Waugh, W. H., 3, 13, 15, 99, 100
Wayner, M. J., 538, 548
Weale, R. A., 257
Weaver, M. E., 182
Webb-Reploe, M. M., 457
Weber, A. I., 415
Webster, A. J. F., 163, 166, 168, 172, 173, 175
Wechsler, A. S., 4
Weglicki, W. B., 133
Wei, R., 528
Wei, S., 312, 322
Weibel, E. R., 140, 142, 143
Weick, R. F., 422
Weidmann, S., 490, 518, 519, 520, 521, 522
Weikers, N. J., 298
Weinberger, N. M., 302
Weiner, A. L., 45, 46
Weiner, H., 339, 345, 348, 351, 371, 386, 387
Weiner, J. S., 166, 177, 179, 181, 182, 187
Weiner, L. M., 457
Weiner, R., 463
Weinstein, E., 86, 103
Weinstein, G. D., 48
Weinstein, G. W., 209, 264, 265
Weisendanger, M., 338, 339, 340, 346, 347, 352, 359, 360, 368, 380
Weish, P., 164
Weiss, B., 311, 316
Weiss, F. R., 121
Weiss, H. S., 156, 157, 162
Weiss, J. M., 406, 407
Weitsen, H. A., 447, 466
Wekstein, D. R., 160
Welbourne, T. C., 119
Welch, M., 33
Welch, R. M., 63
Wells, H., 19
Welsh, R. S., 155, 183
Welt, C., 339, 340, 343, 347, 355, 358, 360, 386
Welt, L. G., 101
Wendling, M. G., 448, 465
Wenig, J., 62
Wenner, J., 132
Wenzel, M., 33, 49
Werblin, F. S., 220, 244, 257, 259, 260, 261, 262, 263, 269, 270, 272
Werk, E. E., 46
Werkstrom, B., 181
Wernick, J. S., 293, 294, 296, 302
Werrbach, J. H., 415
Wersäll, H., 295
West, G. B., 582
West, G. C., 157, 159
West, J. B., 139, 140, 147, 150, 151
Wever, E. G., 285
Wexler, I., 468
Whalen, R. E., 34, 43, 44, 55, 64, 420
Whaler, B. C., 5
Wheatley, I. S., 422, 427
Wheeler, H. O., 107
Whipp, B. J., 132
Whitaker, J. H., 156
Whitcomb, M. A., 295
White, A. A., 118, 314, 315
White, F. N., 450
White, I. G., 68
White, N. M., 556
White, R. W., 101
White, S. D., 548
Whitehorn, D., 340, 341, 342, 345, 358, 387
Whiteside, L., 242
Whitfield, I. C., 283, 285, 296
Whitmore, L., 456
Whitmoyer, D. I., 421, 557
Whitney, B., 10
Whittembury, G., 83, 108, 109
Whitteridge, D., 230
Whittow, G. C., 156, 158, 159, 161, 162, 175
Wick, A., 312
Wickelgren, W. O., 297
Wicks, W. D., 328
Wide, L., 424, 425
Widerhold, M. L., 295
Widnell, C. C., 67
Wiederhelm, L. A., 445
Wiederholt, M., 86, 88
Wieland, O., 316, 317, 322
Wiesel, T. N., 224, 227, 230, 231, 232, 341
Wiesenfeld, J. R., 203
Wieth, J. O., 107
Wilber, C. G., 587
Wilber, J. F., 409
Wilcox, R. H., 538
Wiley, D. C., 323
Wilkenfeld, B. E., 448
Wilkins, M. H. F., 206, 211
Wilkinson, I. M. S., 468
Wilkoff, W. G., 134, 135, 137, 138
Willem, V., 574, 575, 576, 577
Williams, C. G., 179, 180, 181
Williams, D. C., 43, 44, 47
Williams, D. D., 172, 173, 175, 184
Williams, T. E., 37
Williams, T. F., 406
Williams, T. P., 213
Williams-Ashman, H. G., 31-82; 41, 43, 49, 55, 56, 57, 59, 60, 61, 64, 69, 70
Williamson, H. E., 103, 467
Williamson, J. R., 19
Williamson, P. D., 298
Willis, J. S., 108
Willis, L. R., 103
Wilmat, L., 66
Wilson, E. W., 68
Wilson, J. A. F., 4, 9, 13

Wilson, J. D., 43, 44, 45, 46, 53, 54
Wilson, M. E., 230
Wilson, W. O., 162
Wilson, W. P., 297
Windhager, E. E., 83, 88, 91, 93, 94, 95, 105
Winegrad, S., 506, 524
Winters, V. G., 185, 316
Wise, C. D., 553, 554, 555
Wise, R. A., 547, 548
Witkovsky, P., 257-80; 224, 260, 261, 262, 263, 270
Witt, I., 132
Wittek, M., 62
Witter, A., 398, 399
Wittke, G., 156, 158, 159, 161, 175
Wohlschlag, D. E., 592
Wolbarsht, M. L., 220, 223, 263, 269
Woldring, S., 595
Wolf, G., 541
Wolf, S., 33
Wolfe, P. B., 318
Wolff, J., 325
Wollack, A. C., 132
Wollenberger, A., 481, 526
Wolsk, D., 349, 351, 352, 354
Wong, M. S. F., 37
Wood, E. H., 518, 519, 520, 521, 522
Woodward, P. M., 181
Woodworth, R. S., 377
Woolsey, C. N., 357
Wooten, G. F., 452
Worden, F. G., 297
Worthington, C. R., 206, 210, 211, 212
Worthington, D. W., 283, 284
Woskoboinikoff, M. M., 574
Wotiz, H. H., 40, 41, 42
Wotiz, H. S., 42
Wright, D. E., 571, 572
Wright, F. S., 86, 87, 91, 92, 100, 103, 104
Wright, G. W., 132
Wright, P. G., 447
Wu, C. H., 424, 425, 426, 427
Wu, C.-I., 412
Wünnenberg, B., 456
Wünnenberg, W., 168, 170, 172, 173, 175
Wurtman, R. J., 31, 422
Wyman, L. C., 588
Wyndham, C. H., 156, 163, 168, 179, 180, 181
Wyngarden, L. J., 422, 427
Wyrwicka, W., 541
Wyss, R. H., 40, 49
Wyszecki, G., 221

Y

Yahagisawa, N., 371
Yakshi, T. L., 552
Yalow, R. S., 407, 414
Yamada, E., 260, 263
Yamamoto, K., 395
Yamanaka, H., 46, 67, 68
Yamauchi, A., 6, 9, 582
Yamazaki, E., 408
Yamazaki, R., 316
Yanaga, T., 516, 517
Yates, F. E., 393-444; 398, 399, 402, 403, 404, 405, 406, 410
Yazdani, G. M., 575
Yeh, B. K., 463
Yen, S. S. C., 424, 425, 426
Yeung, D., 325
Yim, G. K. W., 242
Yin, T. H., 538
Yokota, T., 368
Yoshida, M., 371, 373
Yoshikama, S., 258
Yoshimi, T., 424, 425, 426
Yoshimura, F., 396
Yoshimura, K., 185, 187, 192
Yoshinaga, K., 326
Young, J. Z., 582
Young, R. B., 32
Young, R. W., 213, 252, 253
Young, S., 596
Young, T.-K., 120
Yousef, M. K., 162, 178, 179, 181, 182, 190, 191
Yu, P. N. G., 132
Yu, Y.-Y., 411
Yudaev, N. A., 68
Yudkin, J., 111
Yussman, M. A., 424, 425

Z

Zaaijer, J. J. P., 71
Zadorozhny, A. G., 361
Zadunaisky, J. A., 252
Zajani, E. D., 62
Zanbilowicz, J., 458
Zeisberger, E., 163, 166, 168, 171, 172, 173, 175, 176
Zelis, R., 457
Zimmerman, B. G., 456, 457
Zimmermann, E., 404, 405
Zimmermann, M., 347
Ziro, S., 319
Zolman, J. F., 160
Zubay, G., 323
Zucker, I., 534, 541
Zuromski, E., 557
Zvorykin, V. P., 306
Zweifach, B. W., 450
Zwetnow, N., 470

SUBJECT INDEX

A

Acetylcholine
diuretic effect of, 101, 102
fish gills and, 584
food intake control and, 552
gill blood flow and, 572
heart actions of
reversal of, 16
heart contraction and, 523, 525
heart potentials and, 527
intestinal circulation and, 462, 463
kidney circulation and, 466
liver circulation and, 460
neural control of drinking and, 549
norepinephrine release and, 5
release of
sympathetic and, 7
retinal role of, 270
sodium transport and, 102
temperature regulation and, 192, 193
tissue GMP and, 312
transmitter role of, 270
Acidosis
kidney ammonia excretion and, 111-21
Acoustic nerve
action potentials of, 290, 291
ACTH
adrenal steroids and, 402-6
cells secreting, 395, 396, 397
pituitary AMP and, 399, 400
secretion of
brain areas and, 401, 402
CRF and, 401
internal feedback loop and, 402
pituitary transplants and, 401
rate-sensitive feedback and, 403, 404
regulation of, 396-408
stress and, 400, 402-6
vasopressin and, 399
Adenohypophysis
ACTH secretion by, 396-408
see also ACTH, secretion of
adrenergic receptors in, 409
androgen uptake by, 43
blood supply to, 397, 398
brain relations to, 393-430
reviews on, 393
cells of
ionic effects in, 396
membrane potentials of, 396
cell types of, 395, 396
hormones secreted by, 395
estrogen uptake by, 32, 34, 36
hypophysial-portal system, 394, 397
progesterone uptake by, 48
transplants of, 401, 412
tumors of, 37
Adenosine
brain circulation and, 470
kidney circulation and, 467
Adenosinetriphosphatase (ATPase)
androgens and, 69, 70
Adenyl cyclase
activity of, 314, 327
adrenergic receptors and, 17, 18, 19
brain content of, 314
cyclic AMP formation and, 313
glucagon, 327
hormone receptors and, 314
properties of, 313
ADH
heat acclimation and, 180
Adipose tissue
adrenergic control of, 456
circulation in, 455, 456
fatty acid mobilization and, 455, 456
Adrenal cortex
CNS stimulation and, 401
Cushing's syndrome and, 406, 407
functions of
CNS lesions and, 400
independent of brain, 401
intermittent and periodic, 407, 408
secretory bursts in, 407
glucocorticoids secretion by
internal feedback loop of, 402
neuroendocrine control of, 396-408
see also ACTH
Adrenal medulla
cold acclimation and, 188
Adrenal steroids
cyclic AMP and, 59
enzyme synthesis and, 68
glucocorticosteroids
cold acclimation and, 188
see individual hormones
Adrenergic agents, 1-19
see also Catecholamines
Adrenergic blocking agents
alpha blockers, 13, 17, 19
beta blockers, 14, 19, 160
cold acclimation and, 160
review on, 1
vas deferens and, 6
Adrenergic receptors
adenyl cyclase and, 17-19
adrenotropic receptors, 448, 449
alpha receptors and, 6, 9-15, 18, 19, 58
ATP and, 18
beta receptors, 9-13, 15-17, 19, 57, 58
blood vessels and, 445-47
classification of, 3, 16
cyclic AMP actions and, 57, 58
cyclic nucleotides and, 320
fish circulation and, 582, 583-86
fish gills and, 584
food intake control and, 548-53, 555
geometry of, 445

growth hormone release and, 415
hormonal effects on, 9
membrane changes and, 2, 3, 6
muscle excitation by, 2, 3
pituitary gland and, 409
regional circulations and see special regions
sodium excretion and, 99
stereochemical models for, 19
transmitter mechanisms and, 445, 446, 449
see also Sympathetic nervous system, Catecholamines
Age
heat acclimation and, 180
Aldosterone
heat acclimation and, 179, 180
kidney sodium excretion and, 96, 98, 99
Alpha adrenergic receptors see Adrenergic receptors
Amino acids
food intake and, 538
GRF release by, 414
incorporation of
retina and, 245
testosterone and, 69, 70
metabolism of
cold acclimation and, 189-91
Ammonia
kidney excretion of, 110-21
acidosis and, 111
cyclic AMP and, 117
gluconeogenesis and, 112-18
glutamine and, 111-21
AMP, cyclic
ACTH secretion and, 399, 400
actions of, 19, 321
cell-free systems and, 322, 323
fat metabolism and, 325
galactosidase synthesis and, 323
intact cell systems and, 323-26
positive inotropic effects and, 327
protein kinases and, 323
tumor growth and, 325
water transport and, 325
adrenal cortical hormones and, 59
catecholamine actions and, 2, 17, 18, 58
clinical significance of, 321
cold acclimation and, 185
derivatives of, 326
destruction of, 316-18, 324, 327
excretion of, 318-21
formation of, 313, 314, 323
GRF action and, 412
hormone action and, 311, 312, 319-21
intracellular levels of, 311, 312
kidney ammonia excretion and, 117
kidney circulation and, 467
kidney metabolism and, 325
lipolysis and, 185
phosphorylase system and, 19
plasma content of, 319, 324
progesterone and, 58
protein phosphokinase reaction and, 59
RNA synthesis and, 58
"second messenger role" of, 57-59
seminal vesicles and, 58, 59
testosterone and, 58
see also Nucleotides, cyclic
Amphetamine
food intake control and, 550, 551, 554, 558
Amygdala
feeding behavior and, 555
adrenergic system in, 555
cholinergic system in, 555
lesions of, 556
ventromedial hypothalamus and, 556
Androgens
"active form" of, 47
androgen-insensitivity syndrome
gender identity in, 54
genetic type of, 53
metabolism in, 52-54
antagonists of, 44
anterior pituitary effects of, 35
estrogen uptake and, 35
liver metabolism and, 63
male tract development and, 64
metabolic derivatives of porphyrin synthesis and, 61
metabolism of, 33, 44, 45, 53, 54, 63
penis effects of, 55, 56
protein synthesis and, 64
RNA synthesis and, 64, 67
sebaceous glands and, 70, 71
sleep duration and, 53
sterilization of females by, 35
synthetic processes and, 69
tissue enzymes and, 68
tissue uptake of, 43-47
uterine effects of, 67
see also Testosterone
Angiotensin
glomerular filtration and, 94
intestinal circulation and, 461
kidney circulation and, 465, 466
proximal reabsorption and, 94, 95
spleen circulation and, 460
Arteries
adrenergic innervation of, 445, 446, 451
cholinergic innervation of, 447
smooth muscle of
enzymes in, 167
Arterioles
adrenergic innervation of, 446
cholinergic innervation of, 447
smooth muscle of
adrenergic effects on, 8, 9, 12-14
Arteriovenous shunts
stomach circulation and, 458
ATP
adrenergic receptors and, 18
organ of Corti and, 288
Avidin
synthesis of, 48, 58, 68

B

Beta adrenergic receptors see Adrenergic receptors
Bicarbonates
alveolar exchange of, 135, 136
kidney excretion of, 101

red cells and, 135
Bladder, urinary
androgen metabolism by, 45
Blood vessels
see Arteries, Arterioles, Veins
Botulinum toxin
acetylcholine release and, 5
Bradykinin
intestinal circulation and, 462
kidney action and, 103
Brain
adenohypophysis and, 393-430
adrenocortical function and, 400-2
blood-brain barrier, 245-47
circulation in, 468-70
autoregulation in, 469, 470
capillaries of, 246, 247
metabolic control of, 470
neural control of, 469
regional, 468
resistance in, 469
corticosteroid uptake by, 406, 407
estrogen uptake by, 420
glia cells of, 242-49
gonadotropin release and signal localization in brain, 419-21
growth hormone coded by, 413
ionic environment of, 247-49
metabolism of
cold acclimation and, 159
RNA synthesis in, 67, 68
thyroid system control by, 410
see also Central nervous system and various parts of brain
Bronchi
catecholamine effects on, 10, 15
Brown adipose tissue
see Fat, brown

C

Calcium
AMP actions and, 19
catecholamine actions and, 11-14, 16, 18
cyclic AMP excretion and, 320
heart action potentials and, 499, 504, 506, 507, 509, 513-18, 522-25, 527
heart contraction and, 522-28
kidney excretion of, 101
membrane conductance and, 11
phosphodiesterase activity and, 316
smooth muscle automaticity and, 14
smooth muscle excitation and, 11
tissue compartments for, 527
Carbamates
alveolar gas exchange and, 133, 134
Carbohydrate metabolism
cold acclimation and, 187-89
cyclic nucleotides and, 324
enzymes of, 187, 188
see also Gluconeogenesis, Glycogen, etc
Carbon dioxide
alveolar exchange of, 131-38
brain circulation and, 470
exchange in fishes, 588-97
Carbonic anhydrase
fish gills and, 589
Carnitine
temperature acclimation and, 184
Catecholamines
adipose tissue circulation and, 455, 456
Catecholamines
calcium hypothesis and, 11, 16, 18
cholinergic nerve control by, 7
circulatory hormones, 9-15
cyclic AMP and, 2, 17, 58
diffusion of, 8
enzymic reactions and, 3
fish circulation and, 582, 583, 585, 586
fish gills and, 585, 586, 587
functions of, 1-19
ganglion transmission and, 7
gastrointestinal effects of, 10-12
identification of, 4
inhibition hypotheses of, 11, 12
ionic effects of, 11, 12
liver circulation and, 460
reviews on, 1
uterine effects of, 14, 15
vascular effects of, 12-14
see also Epinephrine, Norepinephrine, Isoproterenol
Central nervous system
afferent mechanisms of, 203-32
photoreceptor function in, 203-19
visual function of, 203-32
anatomy of, 339
ascending sensory paths of, 345, 351
control systems for movement, 374-87
displacement control system, 383-87
force control system, 378-80
intermittent vs continuous, 375-77
sensory feedback for, 374-77, 381, 385
speed control system, 380-83
food intake regulation and, 533-59
glia of, 241-53
motor mechanisms in, 337-87
input organization of, 339-54, 374-77, 381, 385
reviews on, 339
see also Hypothalamus, Pyramidal system, Cortex, cerebral, etc
Cerebellum
cerebral relations of, 373, 374
cultures of, 243
membrane potentials in, 243
motor functions of, 373, 374, 381, 382, 384
red nucleus and, 373
Cerebrospinal fluid
regulation of, 247
Chemoreceptors
fish respiration and, 597
Chemoreceptors
venous, 598, 599
Chloride
kidney handling of, 106, 107, 108
transport mechanisms for, 106-8
Cholecystokinin
intestinal circulation and, 464
pancreas blood flow and, 458, 459
Cholinergic mechanisms
blood vessels and, 447

Chromaffin tissue
fish hearts and, 582
Circulation
adaptations in fishes, 576-88
arterial pressure and, 579, 585-88
baroceptor reflexes in, 588
cardiac output and, 579-81, 595
chromaffin tissue of, 582
gill circulation, 584-86
heart filling in, 577-79
heart function and, 578, 579, 587
heart innervation, 581, 582, 588
heart rate and, 577, 580-84
hemodynamics of, 577
pericardium and, 577-79
venous circulation, 577, 578
Circulation, regional, 445-70
blood vessel innervation, 445-49
see also various organs
Circulation, splanchnic
see specific splanchnic organs
Cochlea
see Ear
Cochlear nucleus
hearing and, 296, 299, 301
Colliculus, inferior
hearing and, 303-6
Colon
adrenergic innervation of, 7
catecholamine effects on, 9-16
circulation in, 464
Contraceptive substances
barbiturates and, 63
metabolic effects of, 61
steroid hormones, 4, 61
Coronary circulation
adrenergic innervation of, 15
Corpus callosum
vision and, 230
Corpus luteum
progesterone-binding protein in, 49
Corpus striatum
sensory relay mechanisms and, 346
Cortex, cerebral
columnar organization of, 231, 232
depth discrimination and, 228, 229, 230
frontal area of
feeding behavior and, 557, 558
glial cells of, 242-45
hearing and, 297, 298, 305, 306
motorsensory area of
cerebellar relations of, 373
collateral interactions in, 358, 360
corticocortical relations in, 345, 346
input-output radial columns, 344, 354-60, 377
inputs to, 339, 340-54
intracortical microstimulation of, 354-58
motor localization in, 355-57, 362, 368
neuron analysis in, 340-45, 347, 349
output organization of, 360-74
peripheral receptive fields and, 340-44, 347
sensory convergence in, 340, 343-47, 351-53
see also Pyramidal system
reflexes in, 385-87
grasping reaction, 385, 386
tactile placing reaction, 386
striate area of
visual functions of, 227-32
"unresponsive cells" of, 242, 243
Corticosterone
brain effects on, 401
brain uptake of, 407
heat acclimation and, 178, 179
plasma diurnal cycle and, 400, 404, 405, 407
time-dependent feedback and, 404
Cortisol
ACTH secretion and, 396
CRF
assay of, 398, 399
control of secretion of, 402, 403
mechanism of action of, 399, 400, 404
site of storage of, 397
transport of, 398
types of, 399
vasopressin and, 398, 399
Cytochrome oxidase
cold acclimation and, 160

D

Deoxyribonucleic acid (DNA)
synthesis of
cell division and, 55
mammary glands and, 56
polyamines and, 59
reproductive system and, 55, 56
Diabetes insipidus
kidney mechanisms in, 110
5α-Dihydrotestosterone
active form of androgens, 47, 51
antiandrogens and, 48, 50
cell division and, 54
prostate effects of, 54
protein binding of, 47, 48, 53
RNA synthesis and, 50
tissue uptake of, 47-49
Dinitrophenol
metabolic effects of, 178
Diuretic drugs
kidney circulation and, 467
Dopamine
GRF release by, 413
intestinal circulation and, 462, 463
receptors for, 463
retinal content of, 270
Ductus arteriosus
innervation of, 447, 448

E

Ear
average evoked potentials of, 297, 298
basilar membrane tuning, 282-84
binaural effects, 299, 306
central afferent mechanisms for, 296-307
dc potentials in, 286-90
metabolic energy sources and, 287-89
eighth nerve action potentials, 290, 291
electronmicroscopy of, 288
endolymphatic system of, 286-89
frequency tuning and, 290, 291
hypoxia effects on, 290
internal ear
Békésy traveling wave in, 282, 283

cochlear microphonics, 282-86, 288-95
ionic gradients in, 286, 287, 289
metabolic inhibitors and, 288
neural excitation in, 291
click excitation functions, 293
continuous tones and, 292
discrepant response areas, 292, 293
electric modulation of, 293
models of sensory receptor action, 293
suppression of, 292, 295
nonlinear mechanisms of, 283-86
distortion products in, 285
summating potentials in, 285
tonal interference in, 285
outer and middle ears, 281, 282
distortion in, 284
impedance matching in, 281
tympanic membrane function, 281
peripheral efferent control of, 295-97
potentials in, 286-89
scala media integrity in, 289
timing and periodicity and, 291
Emotion
cyclic AMP excretion and, 321
Enzymes
adrenergic receptors and, 3
Enzymes, oxidative
temperature acclimation and, 183
Epinephrine
colon muscle and, 16
cyclic nucleotide excretion and, 320
fish circulation and, 583, 585, 586, 588
fish gills and, 572, 584, 585
food intake regulation and, 537, 549, 554
heart action potentials and, 516, 517
heart contracture and, 525, 526
intestinal circulation and, 463
inotropic action of, 525
membrane effects of, 12
TSH secretion and, 409
uterine muscle and, 14, 15
vascular muscle and, 12, 13
Eptatretin
hagfish heart and, 581
Esophagus
catecholamine effects on, 10
Estradiol
characteristics of, 422
menstrual changes in, 425
Estrogen
adrenergic receptors and, 9, 14
Estrogens
androgen metabolism and, 47
antipodes of, 36
assay of, 40
binding by specific proteins, 38-43
blood-brain barrier and, 35
brain uptake of, 420
cell source of, 423
cell uptake of, 31-36, 49
estrogen-binding proteins and, 37, 39-43
characteristics of, 422, 423
cyclic AMP and, 57, 58
DNA polymerase and, 71
enzyme effects of, 57
enzymes metabolizing, 33
enzyme synthesis and, 68
food intake regulation and, 534
gonadotropin secretion and, 420
growth hormone secretion and, 414
hypothalamic uptake of, 34-36, 39
"impeded", 32
liver metabolism and, 63, 71
male feminization by, 52-54
mammary uptake of, 36, 37
menstrual changes in, 425-27
metabolism of, 32, 33, 56
mimicked by nucleotides, 326
prolactin secretion and, 416
protein synthesis and, 68
pyridine nucleotides and, 56, 57
RNA synthesis and, 50, 65, 67, 68
testosterone metabolism and, 53
uterine blood flow and, 64
uterine effects of, 70
uterine growth and, 32
uterine RNA-methylase of, 66
ventromedial thalamus and, 534
Estrous cycle
enzyme activity and, 68
estrogen uptake in, 34
prolactin and, 416
Exercise
adaptation in fishes, 593
kidney circulation and, 468
muscle vasodilation in local factors causing, 452-55
respiratory changes in, 132-35, 146
skin-muscle blood flow in, 457
temperature and, 180
aldosterone and, 180
heat acclimation and, 180
review on, 156
sweating and, 181
Extracellular fluids
volume regulation of
hypothalamic control of, 98
kidney role in, 91, 96-105, 108, 109
natriuretic hormone and, 96, 97, 103-5
renal nerves and, 98
sodium concentration and, 98, 100
vena cava constriction and, 98
Eye
vitreous humor of
hyaloid vessels in, 246, 247

F

Fat, body
cold acclimation and, 185, 186
food intake regulation and, 537, 539
insulin and, 186
Fat, brown
enzymes of, 169, 170, 183
membrane potentials of, 171

norepinephrine and, 172-76
temperature regulation and, 160, 168-71, 185, 194
ultrastructure of, 169
Fat metabolism
cyclic nucleotides and, 325
Fatty acids
brown fat and, 170, 171
cold acclimation and, 156, 157, 160, 183, 185-87
GRF release by, 414
kidney excretion of, 164
kidney function and, 100
Fibroblasts
membrane properties of, 528
tissue culture of, 528
Fluid intake
neural control of
cholinergic stimulation and, 555
hunger and, 537, 548
lateral hypothalamic area and, 536, 537
Food intake
conditioning and, 558
drug effects on, 553, 554
electrically elicited, 546-48, 556
neural control of, 533-59
adrenergic systems of, 548-53, 555
amino acids and, 538
aphagia and, 536-43
behavior related to, 546-48
blood concentrations and, 538
body weight control and, 539
cholinergic system of, 552-55
dislike for food, 538
fluid intake and, 537, 548
food preferences and, 542
glucostatic mechanism in, 537, 538
hyperphagia and, 533-36
lipostatic factor in, 537
meal size and, 541
motor activity and, 538
neurochemistry of, 548-54
priming effects in, 545
recovery from lesions, 542
reviews on, 533
reward and aversion systems in, 543-46
reward disinhibition in, 545, 546
reward specificity in, 545
satiety and, 535, 536, 538, 542, 549, 550, 554, 558
taste, olfactory and gastric factor and, 541-43, 547, 558
temperature regulation and, 539
see also Hypothalamus, Medial forebrain bundle
FSH
cells secreting, 395
characteristics of, 422, 423
menstrual changes in, 424-27
secretion of
prolactin and, 416
FSH releasing factor (FRF)
characteristics of, 421, 422

G

Galactosidase
synthesis of, 323
Gall bladder
chloride transfer in, 107
sodium transfer in, 102
Ganglia, dorsal root
cultures of, 250
Ganglia, sympathetic
adrenergic influence on, 7
intestinal motility and, 7
Geniculate body, lateral
binocular vision and, 226, 227
visual function of, 223, 224, 226, 232
Geniculate body, medial
hearing and, 304
Gills of fishes
adaptation to airbreathing, 571, 576, 587, 593-95
anatomy of, 570, 571, 574, 575
blood flow in, 572, 573, 575, 584-88
carbonic anhydrase in, 589
countercurrent exchange in, 573, 574, 589
diffusion exchange in, 571-74, 585
external gas exchange by, 588-93
microstructure of, 571, 572
surface area of, 570, 571
Glia, 241-53
blood-brain barrier and, 245
chemistry and metabolism of, 244, 251
culture of, 243
excretory role of, 253
glial-neuronal contact, 249-51
glia-neuronal transport, 251
ionic equilibria in, 241
neuronal activity and, 247-49
neuronal glial sheaths, 250, 251
physiological properties of, 241-44
potassium buffering by, 247, 248
potentials of, 241-43, 247
precapillary arrangement of, 246
proliferation of, 249
retinal, 271, 272
retinal pigment epithelium and, 251-53
Schwann cells and, 241
sodium storage by, 248, 249
specific protein S-100 and, 245
tumors of, 245
Glucagon
adenyl cyclase activity and, 327
adipose tissue and, 455
cyclic AMP excretion and, 319
fatty acid mobilization by, 455
intestinal circulation and, 464
liver circulation and, 461
nonshivering thermogenesis and, 160
positive inotropic effect of, 327
Gluconeogenesis
cold acclimation and, 187, 188
cyclic AMP and, 117
kidney ammonia excretion and, 112-18
parathormone and, 117
Glucose
hypoglycemia
GRF release by, 413, 414
kidney excretion of, 101
Glucostatic mechanism
food intake and, 537, 538
receptors for, 537, 538
reflex response in, 537
Glutaminase

kidney ammonia excretion and, 111-19
Glutamine
degradation of, 111
glutamine synthetase and, 118-21
kidney ammonia excretion and, 111-21
liver metabolism of, 121
Glycogen
cold acclimation and, 188
enzymes concerned with, 322, 324
metabolism of, 324
liver metabolism of, 188
organ of Corti and, 287, 288
tissue content of
testosterone and, 70
GMP, cyclic
destruction of, 316, 317
estrogen-like effects of, 326
excretion of, 318-21
fat cells and, 324, 325
formation of, 314-16
guanyl cyclase and, 314
hormonal effects and, 319-21
intracellular levels of, 312, 315, 324
parathyroid hormone and, 325
plasma content of, 319, 324
protein kinases and, 322, 323
see also Nucleotides, cyclic
Gonadotropins
progestin release and, 425
secretion of
brain and, 419-21
estrogens and, 420
Growth hormone
assay of, 411
cells secreting, 395, 411
chemistry of, 411
food intake regulation and, 534, 537
neuroendocrine system of, 411-15
penis effects of, 56
RNA synthesis and, 65
secretion of
adrenergic receptors and, 415
estrogen and, 414
feedback loop in, 413
inhibition by GIF, 413
uterus effects of, 65
Growth hormone inhibiting factor
action of, 413
Growth hormone releasing factor (GRF)
action of, 411, 412
cyclic AMP and, 412
thyroid hormones and, 412
chemistry of, 411
pituitary transplants and, 412
secretion of, 413, 414
Guanyl cyclase
activity of, 315
GMP formation and, 314

H

Hair
cold acclimation and, 166, 167
growth of
coital activity and, 71
exercise and, 71
Hearing, 281-307
binaural analysis, 297, 299-306
auditory cortex, 305, 306
behavioral studies of, 305, 306
inferior colliculus and, 303-6
medial geniculate body, 304
superior olivary complex and, 299-303, 306
central mechanisms of, 296-98
nonauditory influences on, 299-307
outer and middle ears, 281, 282
see also Ear
Heart
acetylcholine effects on
reversal of, 16
action potentials of
depolarizing step in, 515
ionic roles in, 515-18, 522
voltage-clamp studies of, 479-526
contraction of, 518-26
calcium and, 522-26
excitation and contraction of, 479-529
fish, 577-84
force-velocity relations of, 524
paired-pacing of, 521
postextrasystolic potentiation of, 521
rate of
pacemaker stretch and, 581, 582
see also Muscle, cardiac
Heme
synthesis of, 61
Hemoglobin
fish respiration and, 590, 591
Hemorrhage
diuresis in, 100
Hippocampus
ACTH secretion and, 407
corticosteroid uptake by, 407
feeding behavior and, 556, 557, 559
learning and, 557
obesity and, 557
theta rhythm of, 557
Histamine
fish circulation and, 586
intestinal circulation and, 463
vasodilatory transmitter, 450
Hydrogen ions
alveolar exchange and, 135-37
5-Hydroxytryptamine
see Serotonin
Hypothalamus
adrenocortical function and, 400
androgen uptake by, 43, 45
behavior facilitation and, 548
capillaries of, 395, 398
corticosteroid effects on, 403
CRF release and, 400-3
dorsal medial area of
food intake control and, 544
eating and drinking and, 548
electric activity of
reproductive hormones and, 420, 421
ependyma of, 394
estrogen uptake by, 34-36, 39
food intake regulation and, 533-59
function of
specificity and plasticity in, 546-48
gonadotropin secretion and
control of, 419
feedback inhibition of, 420
growth hormone control by, 411, 413
islands of, 400
lateral area of
electrical activity of, 537, 540, 551-56

food aversions and, 542, 550
perfusion of, 552
reward-aversion systems in, 543-46
salivation and, 538
self-stimulation of, 543-46, 553
single unit activity in, 558
syndrome of, 536-43
lesions of
hypothalamic islands and, 540, 542
midbrain and, 558
muscle cholinergic vasodilation and, 449, 450
nerve fibers of, 394, 395
neuron types in, 395, 403
PIF content of, 416
preoptic area
temperature in, 539
prolactin implant in, 417
RNA synthesis in, 67
sexual development and, 64, 67
sodium excretion and, 98
stress responses and, 400
temperature regulation by, 167, 192, 193
thyroid system and, 410
TSH implantation into, 410
ventromedial area of
amygdala and, 556
electrical activity of, 537-39, 554
food aversion and, 553, 554
hormonal effects and, 534, 536, 537, 539
hyperphagia and, 533-36, 546
obesity and, 534
sex differences and, 534, 535
single unit activity of, 555
tumors of, 533

I

Immune responses
cold acclimation in, 189
Insulin
cold acclimation and, 186
food uptake regulation and, 536, 537, 539
lipogenic effect of, 186
mammary glands and, 56
phosphodiesterase activity and, 316
prostate effects of, 54
skeletal muscle and, 70
uterine effects of, 65
Interferon
cyclic AMP and, 325
Intestines, small
adrenergic innervation of, 7, 8, 461-63, 465
catecholamine effects on, 10-12
cholinergic mechanisms in, 463, 464
circulation in, 461-65
exercise and, 465
food intake and, 464, 465
motor activity and, 465
peptide actions on, 464
motility of
innervation effects on, 7, 8
pacemaker potentials in, 11
Iodide
kidney excretion of, 164
Isoproterenol
food intake control and, 549, 550, 552
intestinal circulation and, 462, 463
kidney circulation and, 465
liver circulation and, 460
splenic circulation and, 459
tissue GMP and, 312
vascular effects of, 13

J

Joints
sensations from
cortical projection of, 340-50, 353

K

Kidney, 83-121
circulation in, 465-68
autoregulation in, 466
cortex-medulla flow, 465-67
diuretics and, 467
exercise and, 468
nervous control of, 466
osmolality and, 468
peritubular capillary pressure and, 101
proximal reabsorption and, 95
renal nerves and, 99
renal portal system, 447
sodium balance and, 467
ureteral pressure and, 467
vasodilation effects, 95
distal tubular function
blocking of, 98
diuresis and, 105
erythropoiesis and, 62
excretion of substances
see specific substances
extracellular volume regulation and
kidney NaCl pump and, 108, 109
proximal reabsorption and, 91
glomerular circulation
filtration fraction and, 94-96
glomerular filtration
angiotension and, 94
bradykinin and, 103
determination of, 94
proximal reabsorption and, 91-98
sodium excretion and, 97, 98
glomerulotubular balance, 91-96
glutamine in
see Glutamine
innervation of
denervation diuresis and, 99
diuresis and, 99
sodium excretion and, 99
volume regulation and, 99
metabolism of
cyclic nucleotides, 325
tubular function and, 100, 108, 109
see Ammonia
methods for study of, 83-90
controlled suction and, 89
ferrocyanide injection and, 87, 88
fluid reabsorption and, 83-89
glomerular filtration, 83-90
lissamine green transit time and, 86
occlusion-time method, 87
microdissection of, 84
naturietic hormone and, 96, 97, 103-5
nephron types in, 90
osmotic factors and, 110
proximal tubular function, 91-98
acidification and, 108
active transport in, 109, 110
angiotension and, 94

electric potentials and, 106
glomerular filtration and, 91-98
peritubular factors and, 94-96
Starling forces and, 94, 95
volume regulation and, 96
reviews on, 83
single nephron studies, 83-90
tubules of
electric potentials in, 105-7
physical factors and, 101
radius of, 86-88, 92
regional differences in, 110
sodium transport in, 96-105
two-pump hypothesis, 108, 109
water transport in, 105-10

L

Lactate
exercise in fishes and, 593
Lipid metabolism
cold acclimation and, 184-87
Lipids
retinal content of, 210
Lipoprotein
cold acclimation and, 186, 187
Liver
aminolevulinic synthetase of, 61
androgen metabolism in, 52
circulation in, 460, 461
nervous control of, 460
reservoir function of, 460
cold acclimation and, 166, 191, 193
enzyme systems of, 69
glucostatic receptors in, 538
metabolism of, 71
RNA synthesis in, 65
sex hormone effects on, 63, 65, 69
testosterone metabolism and, 63
Lungs
circulation in
comparative aspects of, 586
electrostatic factors in, 136
pulmonary artery innervation, 447
pulmonary capillary flow and, 147
gas inhomogeneity in, 139-47
models of, 141-45
volume of elements of, 141, 142
see also Respiration
Luteinizing hormone (LH)
cells secreting, 395
characteristics of, 421-23
menstrual changes in, 424-27
Luteotropin releasing factor (LRF)
characteristics of, 422

M

Magnesium
cold acclimation and, 186
lipotropic action of, 186
Malignancy
see Tumors, malignant
Mammary gland
androgen effects on, 56
DNA synthesis in, 56
estrogen effects on, 56, 57
estrogen uptake by, 36, 37
insulin effects on, 56
malignancy of, 36, 37
prolactin effects on, 56
tissue culture of, 56
Manganese
guanyl cyclase activity and, 315, 316
heart action potentials and, 514-17
Medial forebrain bundle
adrenergic system in, 555
feeding behavior, 553, 558, 559
Melantonin
characteristics of, 422
Membranes, biological
structure of, 211
visual pigments and, 209, 213
Menstrual cycle
causal chains in, 429
hormonal changes in, 424-29
mathematical models of, 429, 430
Mesencephalon
electrical activity of, 558
feeding behavior and, 558
Movement, voluntary
cerebellar role in, 373, 374, 381, 382
control of, 337, 338, 374-87
pyramidal system and, 338, 363, 364
Muscle, cardiac
contraction of
membrane potentials and, 518-26
contractures, 526
postextrasystolic potentiation and, 521
tissue culture of, 526-28
voltage-clamp studies of, 479-526
calcium ion role in, 499, 504, 506, 507, 509, 510, 513-18, 522
early transient currents in, 497-518
general considerations of, 480, 481
methods for, 481-97
potassium ion role in, 516-18
sodium ion role in, 499, 501, 502, 505, 507-16, 518
sucrose-gap methods, 488-97
see also Heart, action potentials of
Muscle, skeletal
catecholamines and, 1
circulation in, 449-55
adrenergic construction in, 451
adrenergic dilation in, 450, 451
autoregulation in, 449, 450
capillary filtration and, 449, 450
cholinergic mechanisms in, 449, 450
functional hyperemia in, 452-55
histaminergic dilation in, 450
isotopic clearance in, 449
neural-humoral interactions in, 455
osmolality and, 452, 453
pCO_2 and, 454
phosphate and, 454
pO_2 and, 453, 454
red vs white muscle and, 451, 452, 454
veins of, 451
glycogen of, 70, 322
GMP content of, 321

input to motor cortex, 350-54
metabolism of
cold acclimation and, 159
myoglobin of
cold acclimation and, 159, 166, 189
protein synthesis in, 68
testosterone effects on, 68, 70
Muscle, smooth
automaticity of, 14
intestinal, 7, 10-12, 16
myofibrils of, 18
sympathetic excitation of
actomyosin and, 18
biopotentials and, 6, 8, 10-15
cyclic AMP and, 17, 18
fluorescent histochemistry and, 4
hormones and, 9, 14, 15
inhibitory effect hypotheses, 11, 12
ionic effects in, 11-15
mechanism of, 2, 3
membrane phenomena and, 4, 6-12
norepinephrine uptake by, 6
reviews on, 2
uterine, 9, 14, 15
vascular, 8, 9, 12-14
vas deferens and, 6, 7
Muscle spindles
afferent discharge from, 350, 352
cortical effects of, 350
function of, 365, 366
gamma motoneurons from, 353
movement control by, 381
Myelin
development of
glia and, 241

N

Nafoxidine
uterine actions of, 32
Nerves, peripheral
conduction velocity of, 167
temperature effects on, 167
Nerve, vagus
heart effects of
fish hearts and, 582-84, 588
pancreatic effects of, 459
Neurons
glial-neuronal contacts, 249-51
glial sheaths of, 250, 251
Nictitating membrane
adrenergic innervation of, 15
Norepinephrine
brown fat and, 170, 171, 173-76
calcium effects and, 11-14, 18
cold acclimation and, 160, 165, 185, 191
fate of, 2
fish circulation and, 583, 586
fish gills and, 584
food intake control and, 548-53
gastrointestinal tract and, 10-12
GRF release by, 413
intestinal circulation and, 461-63
kidney circulation and, 465, 466, 468
lipolysis and, 160, 185, 188
liver circulation and, 460
nonshivering thermogenesis and, 159, 160, 171-76
prolactin-inhibiting factor and, 415, 416
retinal content of, 270
reviews on, 1, 2
spleen circulation and, 459
temperature regulation and, 191-93
thyroxine deiodination by, 164
transmitter function of, 4-9
acetylcholine and, 5
fluorescent histochemistry and, 4, 5
membrane phenomena and, 4, 8
transmitter inactivation, 5, 6
uterus and, 9, 14, 15
vascular effects of, 12-14
vas deferens and, 6, 7, 9, 10
see also Catecholamines, Muscle, smooth
Nucleotides, cyclic
actions of, 321-26
adrenergic mechanisms and, 320, 327
extracellular levels of, 318
intracellular levels of, 311-13
reviews on, 311
see also AMP, cyclic, GMP, cyclic
Nucleus, lateral vestibular
electronmicroscopy of, 244
glia of, 244
Nucleus, supraoptic
glia cell function in, 249
Nystagmus
hearing impairment by, 297

O

Obesity
hippocampal, 557
hypothalamic, 534-36, 539, 543, 547
Olivary complex, superior
hearing and, 299-303, 306
Olivary nucleus, inferior
pyramidal effects on, 373
Olivocochlear bundle
ear innervation by, 295
Osmotic pressure
kidney circulation and, 468
splanchnic circulation and, 465
vasodilatation from, 452
Ouabain
kidney effects of, 109
Ovariectomy
estrogen uptake and, 37
Oviduct
cyclic AMP and, 58
estrogen effects on, 58, 66
progesterone effects on, 48, 58
RNA synthesis in, 66
Ovulation
control of, 424, 425
Oxygen
alveolar CO_2 exchange and, 133, 134
consumption in fishes, 592, 594
exchange in fishes, 588-95
hypoxia adaptation in fishes, 592, 598

P

Pancreas
circulation in, 458, 459
Parasympathetic nervous system
catecholamines and, 7
control by sympathetic, 7
intestinal motility and, 7, 8

Parathyroid glands
adenoma of, 321
hypoparathyroidism
cyclic nucleotides and, 321
Parathyroid hormone
adenyl cyclase activity and, 314, 320, 321
AMP levels and, 328
bioassay of, 314
cyclic AMP excretion and, 320, 321
cyclic GMP excretion and, 320
gluconeogenesis and, 117
Penis
androgen effects on, 55, 56
growth hormone and, 56
Peroxides
uterine content of, 41
Phosphate
kidney excretion of, 101
Phosphodiesterases
calcium and, 316
cyclic nucleotide derivatives and, 316-18
insulin and, 316
protein activation of, 316
Phosphorylase
activation by cyclic AMP, 322
Phosphorylation, oxidative
brown fat and, 170, 171
temperature acclimation and, 184
Photoreceptors
see Retina
Physiology, comparative
fishes
circulation in, 576
gas exchange in, 569-76
Pigments, retinal, 203-22
absorbance spectra of, 205, 207
bleaching dynamics of, 207, 208, 212
chemistry of, 204-7, 209, 210, 213
color vision and, 221, 222
dichroism of, 209, 210
energetics of, 203, 204, 207, 215-18
labeling of, 214
lipid content of, 210
localization of, 205, 206, 210-12
membrane composition of, 209-11
membrane topology of, 212, 213
microspectrophotometry of, 205, 209, 221
photodichroism of, 209, 210, 212
protein content of, 209-11, 213
quantum efficiency of, 207, 215, 216
regeneration of, 208, 209, 264, 265
retinal excitability and, 264, 265
retinyl-opsin linkage in, 206, 207
Pitressin
intestinal circulation and, 462
spleen circulation and, 460
Pituitary, anterior
see Adenohypophysis
Placenta
pyridine nucleotides and, 57
Polyamines
androgen effects on, 60
cellular biosynthesis and, 59-61
DNA and RNA synthesis, 59
reproductive physiology and, 61
synthesis of, 60
Pons
stress responses and, 401
Pontine nuclei
pyramidal effects on, 372, 373
Porphyria
porphyrin synthesis in, 61, 62
Porphyrins
synthesis of
metabolism of, 61, 62
sex hormone derivations and, 61
Potassium
adenohypophysial cell secretion, 396
heart action potentials and, 516-18, 527
heart contraction and, 525, 526
kidney handling of
Na-K pump in, 109
Pregnancy
cyclic AMP excretion and, 321
implantation in, 65
termination of
prolactin and, 416
uterine changes in, 65
Progesterone
adrenergic receptors and, 9, 14
avidin synthesis and, 48, 68
binding by specific protein, 49
cell source of, 423
characteristics of, 422
cyclic AMP and, 58
gonadotropin release and, 420
menstrual changes in, 425-27
metabolic products of
porphyrin synthesis and, 61
prolactin release and, 416
pyrogenic action of, 62
RNA synthesis and, 66
sebaceous glands and, 71
tissue metabolism of, 48, 49
tissue uptake of, 48, 49
uterine effects of, 66
Prolactin
actions of, 415
cells secreting, 395
characteristics of, 421, 422
chemistry of, 415
estrous cycle and, 416
food intake regulation and, 534
FSH release and, 416
male accessories and, 55
menstrual changes in, 425
pregnancy termination by, 416
releasing factor for, 415
secretion of
estrogens and, 416
inhibiting feedback and, 416, 417
progesterone and, 416
thyroid and, 416
Prolactin inhibiting factor (PIF)
characteristics of, 422
hypothalamic content of, 416
norepinephrine and, 415
release of, 417
thyroid and, 416
Prolactin releasing factor (PRF)
characteristics of, 422
pituitary secretion of, 415
Proprioceptive mechanisms
input to cortex of, 340-54
Prostaglandins
characteristics of, 422, 423
intestinal circulation and, 462, 463

kidney circulation and, 466, 468
lipolysis vasodilatation and, 455, 456
luteolysis and, 427
Prostate gland
amino acid incorporation into, 70
androgen effects on, 54, 55, 69
androgen metabolism by, 44-46
androgen uptake by, 43, 44, 45, 46-48
specific proteins for, 47, 48
ATPase activity of, 69
DNA polymerase and, 71
DNA synthesis in, 55
explants of, 47, 54
growth of, 45
hypertrophy of, 45
insulin effects on, 54
phosphokinases of, 59
polyamines of, 59, 60
progesterone uptake by, 49
prolactin effect on, 55
RNA and growth of, 69
RNA synthesis in, 50, 60, 67, 70
steroid effects on, 54
synthetic reactions in, 69
Protein kinases
cyclic nucleotides and, 322, 323
Proteins
metabolism of
cold acclimation and, 189-91
sex hormone binding by, 31-52
specific protein S-100, 245
synthesis of
avidin and, 48
estrogens and, 67, 68
glia and, 251
inhibition of, 32
mitochondria and, 70
polyamines and, 60
retina and, 245
RNA and, 64, 68, 69
testosterone and, 68, 70
uterine growth and, 32
Proteins, plasma
cold acclimation and, 189-91
Pulmonary circulation
see Lungs, circulation in
Pyramidal system, 337-87
afferent paths and, 347, 359
alpha motoneurons and, 360-64
cerebellar relations of, 373
collateral interactions of, 358-60
cortical excitation of, 340-45
extracortical stimulation of, 359
gamma motoneurons and, 365-70
intracortical microstimulation and, 354-58
motor role of, 342, 357, 360-70, 374-87
pyramidal tract syndrome, 338
section of, 338, 355, 378, 384
spinal interneurons and, 368, 369
supraspinal centers and, 370-74
voluntary movement and, 338, 363, 377
Pyridine nucleotides
acidosis and, 115
transhydrogenase reactions of, 56, 57
estrogens and, 56, 57

R

Red blood corpuscles
erythropoiesis
androgens and, 62
iron incorporation and, 62
kidney and, 62
Red nucleus
connections of, 371
pyramidal effects on, 371
Releasing factors
reviews of, 417, 418
transport of, 395
see also Adenohypophysis, hypophysial-portal system
see also individual factors
Reproduction
hormones involved in characteristics of, 422-28
luteolysis in women, 427, 429
neuroendocrinology of, 417-30
plasma hormonal contents, 417-30
reproductive cycles
brain role in, 419-21
hormones involved in, 418, 424-27
mathematical models of, 429, 430
menstrual events, 428, 429
origins of periodicity, 418, 419
reviews on, 417
Reproductive system, male
development of
androgens and, 64
neural role in, 64
enzymes of, 68
hair growth and, 71
Reserpine
temperature regulation and, 176
Respiration
alveolar gas concentrations
exercise and, 132, 133-35, 146
tidal variations in, 132, 139
alveolar gas exchange, 131-51
acidification and, 136, 137
alveolar slope, 139, 140, 144
CO_2 exchange, 131-38
electrochemical effects in, 136, 137
gas diffusibility and, 145, 146
intrapulmonary diffusion in, 140-43
model of Cumming et al, 141-43
model of La Force and Lewis, 142, 143
model of Rauwerda, 141, 143
normal breathing and, 132, 133
oxygenation reactions and, 133-34
physicochemical equilibria in, 133-37
rebreathing and, 133-37
regional inhomogeneities in, 139, 140
stratified inhomogeneity in, 140, 143-46
argon-nitrogen ratio, 144, 145
dead space, 133, 146, 149
gas exchange in fishes, 569-74
evolutionary aspects of, 570
functional anatomy of, 570-74
theoretical models of, 569, 570
ventilation-perfusion in, 569
see also Gills
liquid breathing, 144
nervous control of

fish breathing and, 595, 596
ventilation in fishes, 574-76
acid-base balance and, 592, 593, 595
airbreathing adaptations, 576, 597, 599
blood oxygen saturation in, 590, 591
breathing control, 595, 596
breathing mechanics in, 574-76
chemoceptors and, 596-99
convection requirements for, 589
energy cost of, 576, 590
external gas exchanges, 588-93
gas exchange efficiency, 589, 590
gas exchanges in airbreathing fishes, 593-95
hemoglobin role in, 590, 591
muscles in, 575-96
oxygen uptake and, 592
pressure-suction pumps in, 575, 576
skin as gas exchanger, 594
swimming effects on, 575, 576
tidal ventilation in, 574, 595
tissue gas tensions and, 591
ventilation-perfusion inequalities, 147-51
analysis by Lenfant and Okubo, 149, 150
analysis by Thews and Vogel, 147, 148, 150
critique of methods for, 149-51
helium washout and, 147, 148
see also Lungs
Retina, 257-73
absorption spectra of, 258, 259
adrenergic agents in, 269, 270
amacrine cells of, 220, 262-64, 270, 272, 273
amino acid incorporation of, 245
binocular vision and, 225
bipolar cells of, 260-64, 272
central neural mechanisms of, 223, 224, 226, 227
circulation in
capillaries of, 246, 251
color vision
cats, 268
color responses in, 221
current distribution in, 258, 265
dark adaptation of, 208
efferent innervation of, 273
electronmicroscopy of, 211, 244, 251
electrophysiology of, 214-17, 243, 252
electroretinogram, 218, 270, 271-73
energetics of, 258
ganglion cells of, 219, 220, 223, 224, 243, 261, 270, 272
drug effects on, 269
maintained discharge of, 265, 266
photoreceptor input mixing at, 267, 268
receptor fields of, 266, 267
glia of, 243, 244, 249-53, 271, 272
horizontal cells of, 243, 244, 259, 260, 261, 262, 270
inner plexiform layer of, 262, 263
ion pump in, 214, 215
microstructure of, 212
movement sensitivity of, 268, 269
neural circuitry of, 219, 226
Oguchi's disease of, 264
outer-segment membrane renewal of, 213, 214
photochemistry of, 264, 265
photoreceptors of, 257-62
excitation of, 257-59, 264, 265
responses of, 217-19
synaptic contacts of, 259, 260
pigment epithelium of, 251-53, 273
pigments of
see Pigments, retinal
potentials of, 257, 260-62, 270-73
quantum efficiency of, 258
receptive fields of, 224, 263, 265-67
receptor potentials of, 208, 209, 213-19
regional differences in, 210, 213
reviews on, 257
rod variance in, 221, 222
sodium channels in, 216, 217
spectral sensitivity in, 268
S-potentials in, 217, 223, 224, 260-62
synaptic organization of, 262, 263, 266, 267
transmitters in, 269
transport paths in, 251-53
Rhodopsins
see Visual pigments
Ribonucleic acid (RNA)
estrogen effect on, 67
genital tissue growth and, 69
hybridization of, 66
protein synthesis and, 64
RNA polymerases and, 60, 67
synthesis of, 58-60, 64-67

S

Salivation
lateral hypothalamus and, 538
Sebaceous glands
gonadal hormones and, 70, 71
pituitary hormones and, 71
sebum production by, 71
Secretin
intestinal circulation and, 464
liver circulation and, 461
pancreas blood flow and, 458, 459
Semen
cyclic AMP content of, 318
Seminal vesicles
adrenergic innervation of, 15
androgen uptake by, 43, 44
metabolism of, 58, 59
polyamines of, 60
RNA and growth of, 69
Septal region
drinking behavior and, 557
feeding behavior and, 556, 558
Serotonin
fish circulation and, 586
fish gills and, 584
temperature regulation and, 191, 192
Sex hormones

vertebrate, 31-72
"active forms" of, 47, 50
cell nuclei and, 50, 51
DNA synthesis and, 54-56
early Chinese studies, 71, 72
intracellular transport of, 50, 51
nucleotide binding of, 52
organ cultures and, 54-56
protein binding of, 31-52
Shivering
cold acclimation and, 159, 167, 168
Skin
adrenergic control of, 456, 457
androgen metabolism by, 44, 53
cholinergic responses in, 457
circulation in, 456-58
cold acclimation and, 158, 166, 167
neurogenic vasodilatation in, 457, 458
progesterone metabolism of, 48
sensations from
cortical projection of, 340-50, 355, 356
receptive fields for, 355
temperature and, 457
temperature of
cold acclimation and, 158
veins of, 456, 457
Sleep
duration of
androgens and, 53
REM sleep
cortisol secretion in, 407, 408
slow wave
growth hormone secretion in, 413, 414
Sodium
active transport of, 102, 105, 110
dietary intake of
hypothalamus and, 541
specific salt-hunger, 541
gall bladder transport of, 102
heart action potentials and, 499, 501, 502, 505, 507-16, 518, 523, 527
kidney excretion of, 96-110
acetylcholine and, 102
aldosterone and, 96, 98, 99
extracellular volume and, 96, 98, 100
glomerular filtration and, 98, 99
hypoproteinemia and, 95
kidney circulation and, 467
microperfusion and, 105
"natriuretic hormone" and, 96, 97, 103-5
peritubular capillary pressure and, 101, 102
plasma fatty acids and, 100
regulation of, 96-105
"third factors" and, 97, 100
two-pump hypothesis for, 109
Somesthetic mechanisms
input to cortex of, 340-54
Spermidine
see Polyamines
Spermine
see Polyamines
Spinal cord
alpha motoneurons of, 360-70
descending motor paths in, 363, 369
gamma motoneurons of, 365-70
interneurons of, 361, 362, 368, 369
pyramidal effects on, 372
reciprocal inhibition in, 362
Spleen
adrenergic innervation of, 15
circulation in, 459, 460
Steroid hormones
anabolic
reviews on, 63
contraceptive
metabolic effects of, 61
metabolism of
enzymes for, 35, 46
sex differences in, 35
Stomach
catecholamine effects on, 10
circulation in
nervous control of, 458
food intake control and, 541-43, 545
gastric upset, 541, 542
Submaxillary gland
androgen metabolism in, 45, 46
Sulfhydryl agents
estrogen uptake and, 36
Sweating
exercise and, 181
regional distribution of, 181
sex and, 181
water availability and, 182
Sympathetic nervous system
blood vessels and, 8, 9
catecholamines as hormones of, 9-15
discharge rate of, 9
gastrointestinal tract and, 7, 8
hormonal effects on, 9, 14, 15
hyperpolarization by, 8
intestinal motility and, 7, 8, 10-12
nerve endings of
electronmicroscopy of, 4
fluorescent histochemistry of, 4, 5, 7
neurons of
vesicles in, 4, 5
parasympathetic control by, 7
summation in, 9
synaptic clefts in, 8
uterus and, 9, 14, 15
vascular system and, 8, 9, 12-14
vas deferens and, 6, 7, 9, 10
see also Catecholamines, Epinephrine, Epinephrine, Norepinephrine, Isoproterenol, Muscle, smooth, etc

T

Taste
diencephalon and, 541, 542
food intake control and, 541, 542, 544, 547, 550
gastric upset and, 541, 542
sex hormones and, 541
Temperature acclimation, 155-95
biochemical mechanisms of, 182-93
carbohydrate metabolism in, 187-89
enzymes and cofactors in, 182, 184, 188
lipid metabolism in, 184-87
monoamines in, 191-93

plasma protein changes in, 186
protein metabolism in, 189-91
birds and, 156-62
body composition and, 156, 159, 160
circulatory changes and, 158, 162
cold, 156-60
evaporation and, 161
food intake and, 156, 157, 161
heat, 160-62
hormonal changes and, 159, 160
insulation and, 157, 158, 162
lethal temperatures, 161
metabolic rate and, 158-60, 162, 184
shivering and, 159, 160
immune responses in, 189
mammals and, 162-95
age and, 180
body composition and, 163, 179, 182
circulatory changes and, 163, 164, 166, 167, 182
cold, 162-76
exercise and, 180
food consumption and, 163, 165, 182, 191
heat, 176-82
hormonal changes and, 163, 164, 165, 177, 180, 182, 186, 188
insulation and, 166, 167, 177
metabolism and, 163, 166, 167, 171-78, 180, 182, 184
organ functions and, 166, 167
sex and, 181
shivering and, 163, 167, 168, 172
reviews on, 156
Temperature regulation
amines and, 191-93
body temperature cycles and, 181
brown fat and, 168-71
countercurrent exchange in, 574
food intake control and, 539
nonshivering thermogenesis in, 159, 160, 165, 166, 169, 171-76
reviews on, 156
set point of, 192
thyroid hormones and, 160, 163, 164, 177-79
see also Temperature acclimation
Tendons
afferent discharge from, 353
Testes
androgen secretion by "active form" of, 47
testicular feminization syndrome, 52-54
Testosterone
amino acid incorporation and, 69
androgen-insensitivity syndrome and, 52-54
barbiturate effects on, 63
cyclic AMP and, 58, 59
effects in females, 35
enzymatic conversions of, 46
erythropoiesis and, 62
levator ani effects of, 55, 70
lipid metabolism and, 70
metabolic derivatives of
liver and, 63
male accessories and, 63
metabolism of, 33, 35, 37, 44-47, 52-54
polyamine synthesis and, 60
prostate effects of, 54, 55, 69, 70
protein binding of, 52
protein synthesis and, 68
RNA synthesis and, 67, 68
skeletal muscle and, 68
tissue uptake of, 43-47, 49
see also Androgens, 5α-Dihydrotestosterone
Tetrodotoxin
acetylcholine responses and, 5
Thalamus
body representation in, 370
motor control and, 382
neuron analysis in, 346
nuclei of
protein S-100 in, 245
retrograde degeneration of, 245
pyramidal effects on, 347, 370, 371
sensory relay mechanisms of, 345, 353, 370, 371
Theophyllin
tissue GMP and, 321
"Third factors"
kidney sodium excretion and, 96, 97
tubular transport and, 100
Thyroid gland
neuroendocrine system of, 408-10
feedback loops in, 409, 410
hypothalamic activation of, 410
TRH role in, 408, 409
Thyroid hormones
biliary clearance of, 164, 179
deiodination of, 164
fecal excretion of, 165
plasma protein binding of, 164
prolactin release and, 416
temperature regulation and, 160, 163-65, 177-79, 182
Thyrotropin
see TSH
Thyrotropin releasing hormone (TRH), 408, 409
biological activity of, 408, 409
chemistry of, 408, 409
feedback loop and, 409, 410
mechanism of action of, 409
secretion control, 410
TSH synthesis and release by, 409
Thyroxine
body growth and, 412
TSH secretion and, 409
Tissue culture
heart cells, 526-28
fibroblasts, 528
membrane potentials of, 526-28
myoblasts, 528
TSH
cells secreting, 395
cold acclimation and, 164
secretion of
epinephrine and, 409
feedback inhibition of, 409, 410
TRH role in, 409
Tumors
anterior pituitary, 37
growth of
cyclic AMP and, 325
hormone secretion by, 37
malignant
mammary, 36, 37
metastasis of, 37
prostatic hypertrophy, 45
Tympanic membrane
sound transfer by, 271

U

Uterus

adrenergic effects on, 9, 14, 15
androgen actions on, 67, 68
antiuterotropic drugs, 32
catecholamine effects on, 14, 15
circulation in
  blood flow in, 64
  neural control of, 447
  pregnancy changes in, 444
cyclic AMP and, 57, 58
estrogen effects on, 9, 66, 67
estrogen metabolism by, 33
estrogen uptake by, 32-39
  specific proteins and, 37-43
  tissue components and, 37-43
glycogen of, 70
peroxide content of, 41
phosphokinases of, 59
phospholipid synthesis in, 64
polyamines of, 60
pregnancy changes in, 65
progesterone effects on, 9
progesterone uptake by, 48, 49
protein synthesis in, 68
  ribosomes of, 67
  RNA synthesis in, 50, 65-68

V

Vagina
  estrogen uptake by, 32, 36
  progesterone uptake by, 48
Vas deferens
  adrenergic innervation of, 6, 7
  catecholamine effects on, 9, 10
Vasopressin
  ACTH secretion and, 399
  CRF activity of, 398, 399
  secretion of, 399
Veins
  adrenergic effects on, 8, 9, 13, 14, 446, 447, 457
  venovasomotor responses, 459
Vision
  binocular vision, 224-31
    central mechanisms for, 226-32
    double vision and, 229
    nasotemporal overlap and, 230
    psychophysical studies of, 225, 226
  central mechanisms for
    motorcortex and, 340, 341, 346
  color vision, 220-24
    avian, 222
    cats, 223, 224
    central mechanisms of, 221, 223
    ganglion cells coded for, 223, 224
    receptor mechanisms for, 221, 222
    turtle, 222, 223
  ocular dominance in, 232
  peripheral mechanisms of, 257-73
  photoreceptor function in, 203-17
    retinal pigments and, 203
  retinal neural organization, 219, 220
  stereopsis and, 224-31
  see also Pigments, retinal, Retina
Volume regulation
  see Extracellular fluids

W

Water
  transport of
    cyclic AMP and, 325
    kidney role in, 105-10
Weight, body
  control of, 539